

- $h_0 = 01100111010001010010001100000001$
- $h_1 = 11101111110011011010101110001001$
- $h_2 = 100110001011110101101110011111110$
- $h_3 = 00010000001100100101010001110110$
- $h_4 = 11000011110100101110000111110000$

Input Text:  
Cryptography

Each Letter:

- C
- r
- y
- p
- t
- o
- g
- r
- a
- p
- h
- y

Text to ASCII

- 67
- 114
- 121
- 112
- 116
- 111
- 103
- 114
- 97
- 112
- 104
- 121

ASCII to Binary

- 01000011
- 01110010





:Out

01100001011100000110100001111001  
:(word 13 XOR word 8) XOR word 2  
01000011011100100111100101110000  
:word 0

---

:((word 13 XOR word 8) XOR word 2) XOR word 0  
00100010000000100001000100001001  
:Out

01000100000001000010001000010010  
:Left Rotated 1

01000100000001000010001000010010  
:Word 16

00000000000000000000000000000000  
:word 14  
00000000000000000000000000000000  
:word 9

---

:word 14 XOR word 9  
00000000000000000000000000000000  
:Out

00000000000000000000000000000000  
:word 14 XOR word 9  
10000000000000000000000000000000  
:word 3

---

:((word 14 XOR word 9) XOR word 3)  
10000000000000000000000000000000  
:Out

10000000000000000000000000000000  
:(word 14 XOR word 9) XOR word 3  
01110100011011110110011101110010  
:word 1

---



11000010111000001101000000110010

:Word 18

01000100000001000010001000010010

:word 16

00000000000000000000000000000000

:word 11

---

:word 16 XOR word 11

01000100000001000010001000010010

:Out

01000100000001000010001000010010

:word 16 XOR word 11

00000000000000000000000000000000

:word 5

---

:(word 16 XOR word 11) XOR word 5

01000100000001000010001000010010

:Out

01000100000001000010001000010010

:(word 16 XOR word 11) XOR word 5

10000000000000000000000000000000

:word 3

---

:((word 16 XOR word 11) XOR word 5) XOR word 3

11000100000001000010001000010010

:Out

10001000000010000100010000100101

:Left Rotated 1

10001000000010000100010000100101

:Word 19

11101000110111101100111011100101

:word 17

00000000000000000000000000000000  
:word 12

---

:word 17 XOR word 12  
11101000110111101100111011100101  
:Out

11101000110111101100111011100101  
:word 17 XOR word 12  
00000000000000000000000000000000  
:word 6

---

:(word 17 XOR word 12) XOR word 6  
11101000110111101100111011100101  
:Out

11101000110111101100111011100101  
:(word 17 XOR word 12) XOR word 6  
00000000000000000000000000000000  
:word 4

---

:((word 17 XOR word 12) XOR word 6) XOR word 4  
11101000110111101100111011100101  
:Out

11010001101111011001110111001011  
:Left Rotated 1

11010001101111011001110111001011  
:Word 20

11000010111000001101000000110010  
:word 18  
00000000000000000000000000000000  
:word 13

---

:word 18 XOR word 13  
11000010111000001101000000110010  
:Out

11000010111000001101000000110010  
:word 18 XOR word 13  
00000000000000000000000000000000  
:word 7

---

:(word 18 XOR word 13) XOR word 7  
11000010111000001101000000110010  
:Out

11000010111000001101000000110010  
:(word 18 XOR word 13) XOR word 7  
00000000000000000000000000000000  
:word 5

---

:((word 18 XOR word 13) XOR word 7) XOR word 5  
11000010111000001101000000110010  
:Out

10000101110000011010000001100101  
:Left Rotated 1

10000101110000011010000001100101  
:Word 21

10001000000010000100010000100101  
:word 19  
00000000000000000000000000000000  
:word 14

---

:word 19 XOR word 14  
10001000000010000100010000100101  
:Out

10001000000010000100010000100101  
:word 19 XOR word 14  
00000000000000000000000000000000  
:word 8

---

:(word 19 XOR word 14) XOR word 8  
10001000000010000100010000100101  
:Out

10001000000010000100010000100101  
:(word 19 XOR word 14) XOR word 8  
00000000000000000000000000000000  
:word 6

---

:((word 19 XOR word 14) XOR word 8) XOR word 6  
10001000000010000100010000100101  
:Out

00010000000100001000100001001011  
:Left Rotated 1

00010000000100001000100001001011  
:Word 22

11010001101111011001110111001011  
:word 20  
0000000000000000000000000000110000  
:word 15

---

:word 20 XOR word 15  
11010001101111011001110110101011  
:Out

11010001101111011001110110101011  
:word 20 XOR word 15  
00000000000000000000000000000000  
:word 9

---

:((word 20 XOR word 15) XOR word 9  
11010001101111011001110110101011  
:Out

11010001101111011001110110101011  
:(word 20 XOR word 15) XOR word 9  
00000000000000000000000000000000  
:word 7

---

:((word 20 XOR word 15) XOR word 9) XOR word 7

11010001101111011001110110101011  
:Out

10100011011110110011101101010111  
:Left Rotated 1

10100011011110110011101101010111  
:Word 23

10000101110000011010000001100101  
:word 21  
01000100000001000010001000010010  
:word 16

---

:word 21 XOR word 16  
11000001110001011000001001110111  
:Out

11000001110001011000001001110111  
:word 21 XOR word 16  
00000000000000000000000000000000  
:word 10

---

:(word 21 XOR word 16) XOR word 10  
11000001110001011000001001110111  
:Out

11000001110001011000001001110111  
:(word 21 XOR word 16) XOR word 10  
00000000000000000000000000000000  
:word 8

---

:((word 21 XOR word 16) XOR word 10) XOR word 8  
11000001110001011000001001110111  
:Out

10000011100010110000010011101111  
:Left Rotated 1

10000011100010110000010011101111  
:Word 24

00010000000100001000100001001011  
:word 22  
11101000110111101100111011100101  
:word 17

---

:word 22 XOR word 17  
11111000110011100100011010101110  
:Out

11111000110011100100011010101110  
:word 22 XOR word 17  
00000000000000000000000000000000  
:word 11

---

:(word 22 XOR word 17) XOR word 11  
11111000110011100100011010101110  
:Out

11111000110011100100011010101110  
:(word 22 XOR word 17) XOR word 11  
00000000000000000000000000000000  
:word 9

---

:((word 22 XOR word 17) XOR word 11) XOR word 9  
11111000110011100100011010101110  
:Out

11110001100111001000110101011101  
:Left Rotated 1

11110001100111001000110101011101  
:Word 25

10100011011110110011101101010111  
:word 23  
11000010111000001101000000110010  
:word 18

---

:word 23 XOR word 18  
01100001100110111110101101100101  
:Out

01100001100110111110101101100101  
:word 23 XOR word 18  
00000000000000000000000000000000  
:word 12

---

:(word 23 XOR word 18) XOR word 12  
01100001100110111110101101100101  
:Out

01100001100110111110101101100101  
:(word 23 XOR word 18) XOR word 12  
00000000000000000000000000000000  
:word 10

---

:((word 23 XOR word 18) XOR word 12) XOR word 10  
01100001100110111110101101100101  
:Out

11000011001101111101011011001010  
:Left Rotated 1

11000011001101111101011011001010  
:Word 26

10000011100010110000010011101111  
:word 24  
10001000000010000100010000100101  
:word 19

---

:word 24 XOR word 19  
00001011100000110100000011001010  
:Out

00001011100000110100000011001010  
:word 24 XOR word 19

00000000000000000000000000000000  
:word 13

---

:(word 24 XOR word 19) XOR word 13  
00001011100000110100000011001010  
:Out

00001011100000110100000011001010  
:(word 24 XOR word 19) XOR word 13  
00000000000000000000000000000000  
:word 11

---

:((word 24 XOR word 19) XOR word 13) XOR word 11  
00001011100000110100000011001010  
:Out

00010111000001101000000110010100  
:Left Rotated 1

00010111000001101000000110010100  
:Word 27

11110001100111001000110101011101  
:word 25  
11010001101111011001110111001011  
:word 20

---

:word 25 XOR word 20  
00100000001000010001000010010110  
:Out

00100000001000010001000010010110  
:word 25 XOR word 20  
00000000000000000000000000000000  
:word 14

---

:(word 25 XOR word 20) XOR word 14  
00100000001000010001000010010110  
:Out

00100000001000010001000010010110  
:(word 25 XOR word 20) XOR word 14  
00000000000000000000000000000000  
:word 12

---

:((word 25 XOR word 20) XOR word 14) XOR word 12  
00100000001000010001000010010110  
:Out

01000000010000100010000100101100  
:Left Rotated 1

01000000010000100010000100101100  
:Word 28

11000011001101111101011011001010  
:word 26  
10000101110000011010000001100101  
:word 21

---

:word 26 XOR word 21  
01000110111101100111011010101111  
:Out

01000110111101100111011010101111  
:word 26 XOR word 21  
00000000000000000000000000000000  
:word 15

---

:((word 26 XOR word 21) XOR word 15)  
01000110111101100111011011001111  
:Out

01000110111101100111011011001111  
:(word 26 XOR word 21) XOR word 15  
00000000000000000000000000000000  
:word 13

---

:((word 26 XOR word 21) XOR word 15) XOR word 13  
01000110111101100111011011001111  
:Out

10001101111011001110110110011110  
:Left Rotated 1

10001101111011001110110110011110  
:Word 29

00010111000001101000000110010100  
:word 27  
00010000000100001000100001001011  
:word 22

---

:word 27 XOR word 22  
00000111000101100000100111011111  
:Out

00000111000101100000100111011111  
:word 27 XOR word 22  
01000100000001000010001000010010  
:word 16

---

:(word 27 XOR word 22) XOR word 16  
01000011000100100010101111001101  
:Out

01000011000100100010101111001101  
:(word 27 XOR word 22) XOR word 16  
00000000000000000000000000000000  
:word 14

---

:((word 27 XOR word 22) XOR word 16) XOR word 14  
01000011000100100010101111001101  
:Out

10000110001001000101011110011010  
:Left Rotated 1

10000110001001000101011110011010  
:Word 30



00001110011001111110100101110001  
:Out

00001110011001111110100101110001  
:word 29 XOR word 24  
11000010111000001101000000110010  
:word 18

---

:(word 29 XOR word 24) XOR word 18  
11001100100001110011100101000011  
:Out

11001100100001110011100101000011  
:(word 29 XOR word 24) XOR word 18  
01000100000001000010001000010010  
:word 16

---

:((word 29 XOR word 24) XOR word 18) XOR word 16  
10001000100000110001101101010001  
:Out

00010001000001100011011010100011  
:Left Rotated 1

00010001000001100011011010100011  
:Word 32

10000110001001000101011110011010  
:word 30  
11110001100111001000110101011101  
:word 25

---

:word 30 XOR word 25  
01110111101110001101101011000111  
:Out

01110111101110001101101011000111  
:word 30 XOR word 25  
10001000000010000100010000100101  
:word 19

---

:(word 30 XOR word 25) XOR word 19  
1111111101100001001111011100010  
:Out

1111111101100001001111011100010  
:(word 30 XOR word 25) XOR word 19  
11101000110111101100111011100101  
:word 17

---

:(word 30 XOR word 25) XOR word 19) XOR word 17  
0001011101101110010100000000111  
:Out

0010111011011100101000000001110  
:Left Rotated 1

0010111011011100101000000001110  
:Word 33

0001011110011111010100111111100  
:word 31  
11000011001101111101011011001010  
:word 26

---

:word 31 XOR word 26  
1101010011111000011111100110110  
:Out

1101010011111000011111100110110  
:word 31 XOR word 26  
11010001101111011001110111001011  
:word 20

---

:(word 31 XOR word 26) XOR word 20  
0000010101000101111000101111101  
:Out

0000010101000101111000101111101  
:(word 31 XOR word 26) XOR word 20

11000010111000001101000000110010  
:word 18

---

:(word 31 XOR word 26) XOR word 20) XOR word 18  
11000111101001010011001011001111  
:Out

10001111010010100110010110011111  
:Left Rotated 1

10001111010010100110010110011111  
:Word 34

00010001000001100011011010100011  
:word 32  
00010111000001101000000110010100  
:word 27

---

:word 32 XOR word 27  
00000110000000001011011100110111  
:Out

00000110000000001011011100110111  
:word 32 XOR word 27  
10000101110000011010000001100101  
:word 21

---

:(word 32 XOR word 27) XOR word 21  
10000011110000010001011101010010  
:Out

10000011110000010001011101010010  
:(word 32 XOR word 27) XOR word 21  
10001000000010000100010000100101  
:word 19

---

:(word 32 XOR word 27) XOR word 21) XOR word 19  
00001011110010010101001101110111  
:Out

00010111100100101010011011101110  
:Left Rotated 1

00010111100100101010011011101110  
:Word 35

0010111011011100101000000001110  
:word 33  
0100000010000100010000100101100  
:word 28

---

:word 33 XOR word 28  
01101110100111101000000100100010  
:Out

01101110100111101000000100100010  
:word 33 XOR word 28  
00010000000100001000100001001011  
:word 22

---

:(word 33 XOR word 28) XOR word 22  
0111110100011100000100101101001  
:Out

0111110100011100000100101101001  
:(word 33 XOR word 28) XOR word 22  
11010001101111011001110111001011  
:word 20

---

:((word 33 XOR word 28) XOR word 22) XOR word 20  
10101111001100111001010010100010  
:Out

01011110011001110010100101000101  
:Left Rotated 1

01011110011001110010100101000101  
:Word 36

10001111010010100110010110011111  
:word 34  
10001101111011001110110110011110  
:word 29

---

:word 34 XOR word 29  
00000010101001101000100000000001  
:Out

00000010101001101000100000000001  
:word 34 XOR word 29  
10100011011110110011101101010111  
:word 23

---

:(word 34 XOR word 29) XOR word 23  
10100001110111011011001101010110  
:Out

10100001110111011011001101010110  
:(word 34 XOR word 29) XOR word 23  
10000101110000011010000001100101  
:word 21

---

:((word 34 XOR word 29) XOR word 23) XOR word 21  
00100100000111000001001100110011  
:Out

01001000001110000010011001100110  
:Left Rotated 1

01001000001110000010011001100110  
:Word 37

00010111100100101010011011101110  
:word 35  
10000110001001000101011110011010  
:word 30

---

:word 35 XOR word 30  
10010001101101101111000101110100  
:Out

10010001101101101111000101110100  
:word 35 XOR word 30  
10000011100010110000010011101111  
:word 24

---

:(word 35 XOR word 30) XOR word 24  
00010010001111011111010110011011  
:Out

00010010001111011111010110011011  
:(word 35 XOR word 30) XOR word 24  
00010000000100001000100001001011  
:word 22

---

:((word 35 XOR word 30) XOR word 24) XOR word 22  
00000010001011010111110111010000  
:Out

00000100010110101111101110100000  
:Left Rotated 1

00000100010110101111101110100000  
:Word 38

01011110011001110010100101000101  
:word 36  
00010111110011111010100111111100  
:word 31

---

:word 36 XOR word 31  
01001001101010001000000010111001  
:Out

01001001101010001000000010111001  
:word 36 XOR word 31  
11110001100111001000110101011101  
:word 25

---

:(word 36 XOR word 31) XOR word 25

10111000001101000000110111100100  
:Out

10111000001101000000110111100100  
:(word 36 XOR word 31) XOR word 25  
101000110111101100111011010111  
:word 23

---

:(word 36 XOR word 31) XOR word 25) XOR word 23  
00011011010011110011011010110011  
:Out

00110110100111100110110101100110  
:Left Rotated 1

00110110100111100110110101100110  
:Word 39

01001000001110000010011001100110  
:word 37  
00010001000001100011011010100011  
:word 32

---

:word 37 XOR word 32  
01011001001111100001000011000101  
:Out

01011001001111100001000011000101  
:word 37 XOR word 32  
11000011001101111101011011001010  
:word 26

---

:(word 37 XOR word 32) XOR word 26  
10011010000010011100011000001111  
:Out

10011010000010011100011000001111  
:(word 37 XOR word 32) XOR word 26  
10000011100010110000010011101111  
:word 24

---

:(word 37 XOR word 32) XOR word 26) XOR word 24  
00011001100000101100001011100000  
:Out

00110011000001011000010111000000  
:Left Rotated 1

00110011000001011000010111000000  
:Word 40

00000100010110101111101110100000  
:word 38  
00101110110111001010000000001110  
:word 33

---

:word 38 XOR word 33  
00101010100001100101101110101110  
:Out

00101010100001100101101110101110  
:word 38 XOR word 33  
00010111000001101000000110010100  
:word 27

---

:(word 38 XOR word 33) XOR word 27  
00111101100000001101101000111010  
:Out

00111101100000001101101000111010  
:(word 38 XOR word 33) XOR word 27  
11110001100111001000110101011101  
:word 25

---

:(word 38 XOR word 33) XOR word 27) XOR word 25  
11001100000111000101011101100111  
:Out

10011000001110001010111011001111  
:Left Rotated 1

10011000001110001010111011001111  
:Word 41

00110110100111100110110101100110  
:word 39  
10001111010010100110010110011111  
:word 34

---

:word 39 XOR word 34  
10111001110101000000100011111001  
:Out

10111001110101000000100011111001  
:word 39 XOR word 34  
01000000010000100010000100101100  
:word 28

---

:(word 39 XOR word 34) XOR word 28  
11111001100101100010100111010101  
:Out

11111001100101100010100111010101  
:(word 39 XOR word 34) XOR word 28  
11000011001101111101011011001010  
:word 26

---

:((word 39 XOR word 34) XOR word 28) XOR word 26  
0011101010100001111111100011111  
:Out

0111010101000011111111000111110  
:Left Rotated 1

0111010101000011111111000111110  
:Word 42

00110011000001011000010111000000  
:word 40

00010111100100101010011011101110  
:word 35

---

:word 40 XOR word 35  
00100100100101110010001100101110  
:Out

00100100100101110010001100101110  
:word 40 XOR word 35  
10001101111011001110110110011110  
:word 29

---

:(word 40 XOR word 35) XOR word 29  
10101001011110111100111010110000  
:Out

10101001011110111100111010110000  
:(word 40 XOR word 35) XOR word 29  
00010111000001101000000110010100  
:word 27

---

:((word 40 XOR word 35) XOR word 29) XOR word 27  
1011110011111010100111100100100  
:Out

0111100111110101001111001001001  
:Left Rotated 1

0111100111110101001111001001001  
:Word 43

10011000001110001010111011001111  
:word 41  
01011110011001110010100101000101  
:word 36

---

:word 41 XOR word 36  
11000110010111111000011110001010  
:Out

11000110010111111000011110001010  
:word 41 XOR word 36  
10000110001001000101011110011010  
:word 30

---

:(word 41 XOR word 36) XOR word 30  
01000000011110111101000000010000  
:Out

01000000011110111101000000010000  
:(word 41 XOR word 36) XOR word 30  
01000000010000100010000100101100  
:word 28

---

:((word 41 XOR word 36) XOR word 30) XOR word 28  
00000000001110011111000100111100  
:Out

00000000011100111110001001111000  
:Left Rotated 1

00000000011100111110001001111000  
:Word 44

0111010101000011111111000111110  
:word 42  
01001000001110000010011001100110  
:word 37

---

:word 42 XOR word 37  
00111101011110111101100001011000  
:Out

00111101011110111101100001011000  
:word 42 XOR word 37  
00010111110011111010100111111100  
:word 31

---

:(word 42 XOR word 37) XOR word 31  
00101010101101000111000110100100  
:Out

00101010101101000111000110100100  
:(word 42 XOR word 37) XOR word 31  
10001101111011001110110110011110  
:word 29

---

:((word 42 XOR word 37) XOR word 31) XOR word 29  
10100111010110001001110000111010  
:Out

01001110101100010011100001110101  
:Left Rotated 1

01001110101100010011100001110101  
:Word 45

0111100111110101001111001001001  
:word 43  
00000100010110101111101110100000  
:word 38

---

:word 43 XOR word 38  
01111000101000000110010111101001  
:Out

01111000101000000110010111101001  
:word 43 XOR word 38  
00010001000001100011011010100011  
:word 32

---

:((word 43 XOR word 38) XOR word 32  
01101001101001100101001101001010  
:Out

01101001101001100101001101001010  
:(word 43 XOR word 38) XOR word 32  
10000110001001000101011110011010  
:word 30

---

:((word 43 XOR word 38) XOR word 32) XOR word 30

11101111100000100000010011010000  
:Out

11011111000001000000100110100001  
:Left Rotated 1

11011111000001000000100110100001  
:Word 46

00000000011100111110001001111000  
:word 44  
00110110100111100110110101100110  
:word 39

---

:word 44 XOR word 39  
00110110111011011000111100011110  
:Out

00110110111011011000111100011110  
:word 44 XOR word 39  
00101110110111001010000000001110  
:word 33

---

:(word 44 XOR word 39) XOR word 33  
00011000001100010010111100010000  
:Out

00011000001100010010111100010000  
:(word 44 XOR word 39) XOR word 33  
00010111110011111010100111111100  
:word 31

---

:((word 44 XOR word 39) XOR word 33) XOR word 31  
0000111111111101000011011101100  
:Out

0001111111111010000110111011000  
:Left Rotated 1

0001111111111010000110111011000  
:Word 47

01001110101100010011100001110101  
:word 45  
00110011000001011000010111000000  
:word 40

---

:word 45 XOR word 40  
0111101101101001011110110110101  
:Out

0111101101101001011110110110101  
:word 45 XOR word 40  
10001111010010100110010110011111  
:word 34

---

:(word 45 XOR word 40) XOR word 34  
1111001011111101101100000101010  
:Out

1111001011111101101100000101010  
:(word 45 XOR word 40) XOR word 34  
00010001000001100011011010100011  
:word 32

---

:((word 45 XOR word 40) XOR word 34) XOR word 32  
1110001111110001110111010001001  
:Out

1100011111100011101110100010011  
:Left Rotated 1

1100011111100011101110100010011  
:Word 48

1101111000001000000100110100001  
:word 46  
10011000001110001010111011001111  
:word 41

---

:word 46 XOR word 41  
01000111001111001010011101101110  
:Out

01000111001111001010011101101110  
:word 46 XOR word 41  
00010111100100101010011011101110  
:word 35

---

:(word 46 XOR word 41) XOR word 35  
01010000101011100000000110000000  
:Out

01010000101011100000000110000000  
:(word 46 XOR word 41) XOR word 35  
0010111011011100101000000001110  
:word 33

---

:((word 46 XOR word 41) XOR word 35) XOR word 33  
0111110011100101010000110001110  
:Out

1111100111001010100001100011100  
:Left Rotated 1

1111100111001010100001100011100  
:Word 49

0001111111111010000110111011000  
:word 47  
0111010101000011111111000111110  
:word 42

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:word 47 XOR word 42  
01101010101111101111001111100110  
:Out

01101010101111101111001111100110  
:word 47 XOR word 42

01011110011001110010100101000101  
:word 36

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:(word 47 XOR word 42) XOR word 36  
00110100110110011101101010100011  
:Out

00110100110110011101101010100011  
:(word 47 XOR word 42) XOR word 36  
10001111010010100110010110011111  
:word 34

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:((word 47 XOR word 42) XOR word 36) XOR word 34  
10111011100100111011111100111100  
:Out

01110111001001110111111001111001  
:Left Rotated 1

01110111001001110111111001111001  
:Word 50

1100011111100011101110100010011  
:word 48  
0111100111110101001111001001001  
:word 43

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:word 48 XOR word 43  
10111011000010110100001101011010  
:Out

10111011000010110100001101011010  
:word 48 XOR word 43  
01001000001110000010011001100110  
:word 37

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:(word 48 XOR word 43) XOR word 37  
11110011001100110110010100111100  
:Out

11110011001100110110010100111100  
:(word 48 XOR word 43) XOR word 37  
00010111100100101010011011101110  
:word 35

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:((word 48 XOR word 43) XOR word 37) XOR word 35  
11100100101000011100001111010010  
:Out

11001001010000111000011110100101  
:Left Rotated 1

11001001010000111000011110100101  
:Word 51

1111100111001010100001100011100  
:word 49  
00000000011100111110001001111000  
:word 44

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:word 49 XOR word 44  
1111100100101101010000101100100  
:Out

1111100100101101010000101100100  
:word 49 XOR word 44  
0000010001011010111101110100000  
:word 38

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:((word 49 XOR word 44) XOR word 38)  
11111000110011000101101011000100  
:Out

11111000110011000101101011000100  
:(word 49 XOR word 44) XOR word 38  
01011110011001110010100101000101  
:word 36

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:((word 49 XOR word 44) XOR word 38) XOR word 36  
10100110101010110111001110000001  
:Out

01001101010101101110011100000011  
:Left Rotated 1

01001101010101101110011100000011  
:Word 52

0111011100100111011111001111001  
:word 50  
01001110101100010011100001110101  
:word 45

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:word 50 XOR word 45  
00111001100101100100011000001100  
:Out

00111001100101100100011000001100  
:word 50 XOR word 45  
00110110100111100110110101100110  
:word 39

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:(word 50 XOR word 45) XOR word 39  
00001111000010000010101101101010  
:Out

00001111000010000010101101101010  
:(word 50 XOR word 45) XOR word 39  
01001000001110000010011001100110  
:word 37

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:((word 50 XOR word 45) XOR word 39) XOR word 37  
01000111001100000000110100001100  
:Out

10001110011000000001101000011000  
:Left Rotated 1

10001110011000000001101000011000  
:Word 53

11001001010000111000011110100101

:word 51

11011111000001000000100110100001

:word 46

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:word 51 XOR word 46

00010110010001111000111000000100

:Out

00010110010001111000111000000100

:word 51 XOR word 46

00110011000001011000010111000000

:word 40

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:(word 51 XOR word 46) XOR word 40

00100101010000100000101111000100

:Out

00100101010000100000101111000100

:(word 51 XOR word 46) XOR word 40

0000010001011010111101110100000

:word 38

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:((word 51 XOR word 46) XOR word 40) XOR word 38

00100001000110001111000001100100

:Out

01000010001100011110000011001000

:Left Rotated 1

01000010001100011110000011001000

:Word 54

01001101010101101110011100000011

:word 52

0001111111111010000110111011000

:word 47

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:word 52 XOR word 47

01010010101010111110101011011011  
:Out

01010010101010111110101011011011  
:word 52 XOR word 47  
10011000001110001010111011001111  
:word 41

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:(word 52 XOR word 47) XOR word 41  
11001010100100110100010000010100  
:Out

11001010100100110100010000010100  
:(word 52 XOR word 47) XOR word 41  
001101101001111001101101100110  
:word 39

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:((word 52 XOR word 47) XOR word 41) XOR word 39  
1111100000011010010100101110010  
:Out

11111000000110100101001011100101  
:Left Rotated 1

11111000000110100101001011100101  
:Word 55

10001110011000000001101000011000  
:word 53  
1100011111100011101110100010011  
:word 48

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:word 53 XOR word 48  
01001001100100011100011100001011  
:Out

01001001100100011100011100001011  
:word 53 XOR word 48  
0111010101000011111111000111110  
:word 42

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:(word 53 XOR word 48) XOR word 42  
00111100110100100011100100110101  
:Out

00111100110100100011100100110101  
:(word 53 XOR word 48) XOR word 42  
00110011000001011000010111000000  
:word 40

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:(word 53 XOR word 48) XOR word 42) XOR word 40  
00001111110101111011110011110101  
:Out

00011111101011110111100111101010  
:Left Rotated 1

00011111101011110111100111101010  
:Word 56

01000010001100011110000011001000  
:word 54  
11111100111001010100001100011100  
:word 49

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:word 54 XOR word 49  
10111110110101001010001111010100  
:Out

10111110110101001010001111010100  
:word 54 XOR word 49  
01111100111110101001111001001001  
:word 43

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:(word 54 XOR word 49) XOR word 43  
11000010001011100011110110011101  
:Out

11000010001011100011110110011101  
:(word 54 XOR word 49) XOR word 43

10011000001110001010111011001111  
:word 41

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:((word 54 XOR word 49) XOR word 43) XOR word 41  
01011010000101101001001101010010  
:Out

10110100001011010010011010100100  
:Left Rotated 1

10110100001011010010011010100100  
:Word 57

11111000000110100101001011100101  
:word 55  
0111011100100111011111001111001  
:word 50

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:word 55 XOR word 50  
10001111001111010010110010011100  
:Out

10001111001111010010110010011100  
:word 55 XOR word 50  
00000000011100111110001001111000  
:word 44

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:((word 55 XOR word 50) XOR word 44  
10001111010011101100111011100100  
:Out

10001111010011101100111011100100  
:(word 55 XOR word 50) XOR word 44  
0111010101000011111111000111110  
:word 42

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:((word 55 XOR word 50) XOR word 44) XOR word 42  
11111010000011010011000011011010  
:Out

11110100000110100110000110110101  
:Left Rotated 1

11110100000110100110000110110101  
:Word 58

00011111101011110111100111101010  
:word 56  
11001001010000111000011110100101  
:word 51

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:word 56 XOR word 51  
11010110111011001111111001001111  
:Out

11010110111011001111111001001111  
:word 56 XOR word 51  
01001110101100010011100001110101  
:word 45

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:(word 56 XOR word 51) XOR word 45  
10011000010111011100011000111010  
:Out

10011000010111011100011000111010  
:(word 56 XOR word 51) XOR word 45  
01111100111110101001111001001001  
:word 43

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:((word 56 XOR word 51) XOR word 45) XOR word 43  
11100100101001110101100001110011  
:Out

11001001010011101011000011100111  
:Left Rotated 1

11001001010011101011000011100111  
:Word 59

10110100001011010010011010100100  
:word 57  
01001101010101101110011100000011  
:word 52

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:word 57 XOR word 52  
11111001011110111100000110100111  
:Out

11111001011110111100000110100111  
:word 57 XOR word 52  
11011111000001000000100110100001  
:word 46

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:(word 57 XOR word 52) XOR word 46  
0010011001111111110010000000110  
:Out

0010011001111111110010000000110  
:(word 57 XOR word 52) XOR word 46  
00000000011100111110001001111000  
:word 44

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:((word 57 XOR word 52) XOR word 46) XOR word 44  
00100110000011000010101001111110  
:Out

01001100000110000101010011111100  
:Left Rotated 1

01001100000110000101010011111100  
:Word 60

11110100000110100110000110110101  
:word 58  
10001110011000000001101000011000  
:word 53

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:word 58 XOR word 53  
01111010011110100111101110101101  
:Out

01111010011110100111101110101101  
:word 58 XOR word 53  
00011111111111010000110111011000  
:word 47

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:(word 58 XOR word 53) XOR word 47  
01100101100001110111011001110101  
:Out

01100101100001110111011001110101  
:(word 58 XOR word 53) XOR word 47  
01001110101100010011100001110101  
:word 45

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:((word 58 XOR word 53) XOR word 47) XOR word 45  
00101011001101100100111000000000  
:Out

01010110011011001001110000000000  
:Left Rotated 1

01010110011011001001110000000000  
:Word 61

11001001010011101011000011100111  
:word 59  
01000010001100011110000011001000  
:word 54

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:word 59 XOR word 54  
10001011011111110101000000101111  
:Out

10001011011111110101000000101111  
:word 59 XOR word 54  
1100011111100011101110100010011  
:word 48

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:(word 59 XOR word 54) XOR word 48

01001100100011101000110100111100  
:Out

01001100100011101000110100111100  
:(word 59 XOR word 54) XOR word 48  
11011111000001000000100110100001  
:word 46

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:((word 59 XOR word 54) XOR word 48) XOR word 46  
10010011100010101000010010011101  
:Out

00100111000101010000100100111011  
:Left Rotated 1

00100111000101010000100100111011  
:Word 62

01001100000110000101010011111100  
:word 60  
11111000000110100101001011100101  
:word 55

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10110100000000100000011000011001  
:Out

10110100000000100000011000011001  
:word 60 XOR word 55  
1111100111001010100001100011100  
:word 49

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:((word 60 XOR word 55) XOR word 49  
01001000111001110100010100000101  
:Out

01001000111001110100010100000101  
:(word 60 XOR word 55) XOR word 49  
0001111111111010000110111011000  
:word 47

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:(word 60 XOR word 55) XOR word 49) XOR word 47  
01010111000110100100100011011101  
:Out

10101110001101001001000110111010  
:Left Rotated 1

10101110001101001001000110111010  
:Word 63

01010110011011001001110000000000  
:word 61  
0001111101011110111100111101010  
:word 56

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:word 61 XOR word 56  
01001001110000111110010111101010  
:Out

01001001110000111110010111101010  
:word 61 XOR word 56  
0111011100100111011111001111001  
:word 50

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:(word 61 XOR word 56) XOR word 50  
00111110111001001001101110010011  
:Out

00111110111001001001101110010011  
:(word 61 XOR word 56) XOR word 50  
1100011111100011101110100010011  
:word 48

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:(word 61 XOR word 56) XOR word 50) XOR word 48  
11111001000101010100011010000000  
:Out

11110010001010101000110100000001  
:Left Rotated 1

11110010001010101000110100000001  
:Word 64

00100111000101010000100100111011  
:word 62  
10110100001011010010011010100100  
:word 57

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:word 62 XOR word 57  
10010011001110000010111110011111  
:Out

10010011001110000010111110011111  
:word 62 XOR word 57  
11001001010000111000011110100101  
:word 51

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:(word 62 XOR word 57) XOR word 51  
01011010011110111010100000111010  
:Out

01011010011110111010100000111010  
:(word 62 XOR word 57) XOR word 51  
1111100111001010100001100011100  
:word 49

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:((word 62 XOR word 57) XOR word 51) XOR word 49  
10100110100111101110101100100110  
:Out

01001101001111011101011001001101  
:Left Rotated 1

01001101001111011101011001001101  
:Word 65

10101110001101001001000110111010  
:word 63

11110100000110100110000110110101  
:word 58

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:word 63 XOR word 58  
01011010001011101111000000001111  
:Out

01011010001011101111000000001111  
:word 63 XOR word 58  
01001101010101101110011100000011  
:word 52

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:(word 63 XOR word 58) XOR word 52  
00010111011110000001011100001100  
:Out

00010111011110000001011100001100  
:(word 63 XOR word 58) XOR word 52  
0111011100100111011111001111001  
:word 50

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:((word 63 XOR word 58) XOR word 52) XOR word 50  
0110000001011110110100101110101  
:Out

1100000010111101101001011101010  
:Left Rotated 1

1100000010111101101001011101010  
:Word 66

11110010001010101000110100000001  
:word 64  
11001001010011101011000011100111  
:word 59

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:word 64 XOR word 59  
00111011011001000011110111100110  
:Out

00111011011001000011110111100110  
:word 64 XOR word 59  
10001110011000000001101000011000  
:word 53

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:(word 64 XOR word 59) XOR word 53  
10110101000001000010011111111110  
:Out

10110101000001000010011111111110  
:(word 64 XOR word 59) XOR word 53  
11001001010000111000011110100101  
:word 51

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:((word 64 XOR word 59) XOR word 53) XOR word 51  
0111100010001111010000001011011  
:Out

1111000100011110100000010110110  
:Left Rotated 1

1111000100011110100000010110110  
:Word 67

01001101001111011101011001001101  
:word 65  
01001100000110000101010011111100  
:word 60

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:word 65 XOR word 60  
00000001001001011000001010110001  
:Out

00000001001001011000001010110001  
:word 65 XOR word 60  
01000010001100011110000011001000  
:word 54

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:(word 65 XOR word 60) XOR word 54  
01000011000101000110001001111001  
:Out

01000011000101000110001001111001  
:(word 65 XOR word 60) XOR word 54  
01001101010101101110011100000011  
:word 52

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:((word 65 XOR word 60) XOR word 54) XOR word 52  
00001110010000101000010101111010  
:Out

00011100100001010000101011110100  
:Left Rotated 1

00011100100001010000101011110100  
:Word 68

11000000101111101101001011101010  
:word 66  
01010110011011001001110000000000  
:word 61

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:word 66 XOR word 61  
10010110110100100100111011101010  
:Out

10010110110100100100111011101010  
:word 66 XOR word 61  
1111000000110100101001011100101  
:word 55

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:((word 66 XOR word 61) XOR word 55)  
01101110110010000001110000001111  
:Out

01101110110010000001110000001111  
:(word 66 XOR word 61) XOR word 55  
10001110011000000001101000011000  
:word 53

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:((word 66 XOR word 61) XOR word 55) XOR word 53

11100000101010000000011000010111  
:Out

11000001010100000000110000101111  
:Left Rotated 1

11000001010100000000110000101111  
:Word 69

11111000100011110100000010110110  
:word 67  
00100111000101010000100100111011  
:word 62

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:word 67 XOR word 62  
1101111100110100100100110001101  
:Out

1101111100110100100100110001101  
:word 67 XOR word 62  
0001111101011110111100111101010  
:word 56

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:(word 67 XOR word 62) XOR word 56  
11000000001101010011000001100111  
:Out

11000000001101010011000001100111  
:(word 67 XOR word 62) XOR word 56  
01000010001100011110000011001000  
:word 54

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:((word 67 XOR word 62) XOR word 56) XOR word 54  
10000010000001001101000010101111  
:Out

00000100000010011010000101011111  
:Left Rotated 1

00000100000010011010000101011111  
:Word 70

00011100100001010000101011110100  
:word 68  
10101110001101001001000110111010  
:word 63

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:word 68 XOR word 63  
10110010101100011001101101001110  
:Out

10110010101100011001101101001110  
:word 68 XOR word 63  
10110100001011010010011010100100  
:word 57

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:(word 68 XOR word 63) XOR word 57  
00000110100111001011110111101010  
:Out

00000110100111001011110111101010  
:(word 68 XOR word 63) XOR word 57  
1111000000110100101001011100101  
:word 55

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:((word 68 XOR word 63) XOR word 57) XOR word 55  
1111110100001101110111100001111  
:Out

1111101000011011101111000011111  
:Left Rotated 1

1111101000011011101111000011111  
:Word 71

11000001010100000000110000101111  
:word 69  
11110010001010101000110100000001  
:word 64

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:word 69 XOR word 64  
00110011011110101000000100101110  
:Out

00110011011110101000000100101110  
:word 69 XOR word 64  
11110100000110100110000110110101  
:word 58

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:(word 69 XOR word 64) XOR word 58  
11000111011000001110000010011011  
:Out

11000111011000001110000010011011  
:(word 69 XOR word 64) XOR word 58  
0001111101011110111100111101010  
:word 56

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:((word 69 XOR word 64) XOR word 58) XOR word 56  
11011000110011111001100101110001  
:Out

10110001100111110011001011100011  
:Left Rotated 1

10110001100111110011001011100011  
:Word 72

00000100000010011010000101011111  
:word 70  
01001101001111011101011001001101  
:word 65

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:word 70 XOR word 65  
01001001001101000111011100010010  
:Out

01001001001101000111011100010010  
:word 70 XOR word 65

11001001010011101011000011100111  
:word 59

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:(word 70 XOR word 65) XOR word 59  
10000000011110101100011111110101  
:Out

10000000011110101100011111110101  
:(word 70 XOR word 65) XOR word 59  
10110100001011010010011010100100  
:word 57

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:((word 70 XOR word 65) XOR word 59) XOR word 57  
00110100010101111110000101010001  
:Out

01101000101011111100001010100010  
:Left Rotated 1

01101000101011111100001010100010  
:Word 73

1111101000011011101111000011111  
:word 71  
11000000101111101101001011101010  
:word 66

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:word 71 XOR word 66  
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:Out

00111101101100110000110011110101  
:word 71 XOR word 66  
01001100000110000101010011111100  
:word 60

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:(word 71 XOR word 66) XOR word 60  
01110001101010110101100000001001  
:Out

01110001101010110101100000001001  
:(word 71 XOR word 66) XOR word 60  
11110100000110100110000110110101  
:word 58

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:((word 71 XOR word 66) XOR word 60) XOR word 58  
10000101101100010011100110111100  
:Out

00001011011000100111001101111001  
:Left Rotated 1

00001011011000100111001101111001  
:Word 74

10110001100111110011001011100011  
:word 72  
11111000100011110100000010110110  
:word 67

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:word 72 XOR word 67  
01001001000100000111001001010101  
:Out

01001001000100000111001001010101  
:word 72 XOR word 67  
01010110011011001001110000000000  
:word 61

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:(word 72 XOR word 67) XOR word 61  
00011111011111001110111001010101  
:Out

00011111011111001110111001010101  
:(word 72 XOR word 67) XOR word 61  
11001001010011101011000011100111  
:word 59

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:((word 72 XOR word 67) XOR word 61) XOR word 59  
11010110001100100101111010110010  
:Out

10101100011001001011110101100101  
:Left Rotated 1

10101100011001001011110101100101  
:Word 75

01101000101011111100001010100010  
:word 73  
00011100100001010000101011110100  
:word 68

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:word 73 XOR word 68  
01110100001010101100100001010110  
:Out

01110100001010101100100001010110  
:word 73 XOR word 68  
00100111000101010000100100111011  
:word 62

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:(word 73 XOR word 68) XOR word 62  
01010011001111111100000101101101  
:Out

01010011001111111100000101101101  
:(word 73 XOR word 68) XOR word 62  
01001100000110000101010011111100  
:word 60

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:((word 73 XOR word 68) XOR word 62) XOR word 60  
0001111001001111001010110010001  
:Out

0011110010011110010101100100010  
:Left Rotated 1

0011110010011110010101100100010  
:Word 76

00001011011000100111001101111001

:word 74

11000001010100000000110000101111

:word 69

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:word 74 XOR word 69

11001010001100100111111101010110

:Out

11001010001100100111111101010110

:word 74 XOR word 69

10101110001101001001000110111010

:word 63

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:(word 74 XOR word 69) XOR word 63

01100100000001101110111011101100

:Out

01100100000001101110111011101100

:(word 74 XOR word 69) XOR word 63

01010110011011001001110000000000

:word 61

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:((word 74 XOR word 69) XOR word 63) XOR word 61

00110010011010100111001011101100

:Out

01100100110101001110010111011000

:Left Rotated 1

01100100110101001110010111011000

:Word 77

10101100011001001011110101100101

:word 75

00000100000010011010000101011111

:word 70

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:word 75 XOR word 70

10101000011011010001110000111010  
:Out

10101000011011010001110000111010  
:word 75 XOR word 70  
11110010001010101000110100000001  
:word 64

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:(word 75 XOR word 70) XOR word 64  
01011010010001111001000100111011  
:Out

01011010010001111001000100111011  
:(word 75 XOR word 70) XOR word 64  
00100111000101010000100100111011  
:word 62

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:((word 75 XOR word 70) XOR word 64) XOR word 62  
01111101010100101001100000000000  
:Out

11111010101001010011000000000000  
:Left Rotated 1

11111010101001010011000000000000  
:Word 78

00111110010011110010101100100010  
:word 76  
11111101000011011101111000011111  
:word 71

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:word 76 XOR word 71  
11000011010000101111010100111101  
:Out

11000011010000101111010100111101  
:word 76 XOR word 71  
01001101001111011101011001001101  
:word 65

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:(word 76 XOR word 71) XOR word 65  
10001110011111110010001101110000  
:Out

10001110011111110010001101110000  
:(word 76 XOR word 71) XOR word 65  
10101110001101001001000110111010  
:word 63

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:(word 76 XOR word 71) XOR word 65) XOR word 63  
00100000010010111011001011001010  
:Out

01000000100101110110010110010100  
:Left Rotated 1

01000000100101110110010110010100  
:Word 79

- 0: 01000011011100100111100101110000
- 1: 01110100011011110110011101110010
- 2: 01100001011100000110100001111001
- 3: 10000000000000000000000000000000
- 4: 00000000000000000000000000000000
- 5: 00000000000000000000000000000000
- 6: 00000000000000000000000000000000
- 7: 00000000000000000000000000000000
- 8: 00000000000000000000000000000000
- 9: 00000000000000000000000000000000
- 10: 00000000000000000000000000000000
- 11: 00000000000000000000000000000000
- 12: 00000000000000000000000000000000
- 13: 00000000000000000000000000000000
- 14: 00000000000000000000000000000000
- 15: 0000000000000000000000000000110000
- 16: 01000100000001000010001000010010
- 17: 11101000110111101100111011100101
- 18: 11000010111000001101000000110010
- 19: 10001000000010000100010000100101
- 20: 11010001101111011001110111001011

- 21: 10000101110000011010000001100101
- 22: 00010000000100001000100001001011
- 23: 10100011011110110011101101010111
- 24: 10000011100010110000010011101111
- 25: 11110001100111001000110101011101
- 26: 11000011001101111101011011001010
- 27: 00010111000001101000000110010100
- 28: 01000000010000100010000100101100
- 29: 10001101111011001110110110011110
- 30: 10000110001001000101011110011010
- 31: 00010111110011111010100111111100
- 32: 00010001000001100011011010100011
- 33: 00101110110111001010000000001110
- 34: 10001111010010100110010110011111
- 35: 00010111100100101010011011101110
- 36: 01011110011001110010100101000101
- 37: 01001000001110000010011001100110
- 38: 00000100010110101111101110100000
- 39: 00110110100111100110110101100110
- 40: 00110011000001011000010111000000
- 41: 10011000001110001010111011001111
- 42: 01110101010000111111111000111110
- 43: 01111100111110101001111001001001
- 44: 00000000011100111110001001111000
- 45: 01001110101100010011100001110101
- 46: 11011111000001000000100110100001
- 47: 00011111111111010000110111011000
- 48: 11000111111100011101110100010011
- 49: 11111100111001010100001100011100
- 50: 01110111001001110111111001111001
- 51: 11001001010000111000011110100101
- 52: 01001101010101101110011100000011
- 53: 10001110011000000001101000011000
- 54: 01000010001100011110000011001000
- 55: 11111000000110100101001011100101
- 56: 00011111101011110111100111101010
- 57: 10110100001011010010011010100100
- 58: 11110100000110100110000110110101
- 59: 11001001010011101011000011100111
- 60: 01001100000110000101010011111100
- 61: 01010110011011001001110000000000
- 62: 00100111000101010000100100111011
- 63: 10101110001101001001000110111010
- 64: 11110010001010101000110100000001
- 65: 01001101001111011101011001001101

- 66: 11000000101111101101001011101010
- 67: 11111000100011110100000010110110
- 68: 00011100100001010000101011110100
- 69: 11000001010100000000110000101111
- 70: 00000100000010011010000101011111
- 71: 11111101000011011101111000011111
- 72: 10110001100111110011001011100011
- 73: 01101000101011111100001010100010
- 74: 00001011011000100111001101111001
- 75: 10101100011001001011110101100101
- 76: 00111110010011110010101100100010
- 77: 01100100110101001110010111011000
- 78: 11111010101001010011000000000000
- 79: 01000000100101110110010110010100

Set A = h0

01100111010001010010001100000001

Set B = h1

11101111110011011010101110001001

Set C = h2

10011000101110101101110011111110

Set D = h3

00010000001100100101010001110110

Set E = h4

11000011110100101110000111110000

Word 0

00010000001100100101010001110110

!B

00010000001100100101010001110110

:D

!B AND D

00010000001100100101010001110110

:Out

11101111110011011010101110001001

:B

10011000101110101101110011111110

:C

---

B AND C  
10001000100010001000100010001000  
:Out

00010000001100100101010001110110  
:!B AND D  
10001000100010001000100010001000  
:B AND C

---

(!B AND D) OR (B AND C)  
10011000101110101101110011111110  
:F

01011010100000100111100110011001  
:K  
11101000101001000110000000101100  
:A lrot 5  
10011000101110101101110011111110  
:F

---

:(A lrot 5) + F  
110000001010111110011110100101010  
:Out

110000001010111110011110100101010  
:(A lrot 5) + F  
11000011110100101110000111110000  
:E

---

:(A lrot 5) + F + E  
1001000101001100100001111100011010  
:Out

1001000101001100100001111100011010  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11010011111101101001001100010110011  
:Out

1101001111101101001001100010110011  
:(A lrot 5) + F + E + K  
01000011011100100111100101110000  
:Word 0

---

:(A lrot 5) + F + E + K + Word 0  
111011100011001001110001001000100011  
:temp

11100011001001110001001000100011  
:truncated temp  
00010000001100100101010001110110  
:E = D  
10011000101110101101110011111110  
:D = C  
01111011111100110110101011100010  
:C = B Left Rotate 30  
01100111010001010010001100000001  
:B = A  
11100011001001110001001000100011  
:A = Temp

---

Word 1

10011000101110101101110011111110  
:!B  
10011000101110101101110011111110  
:D

---

!B AND D  
10011000101110101101110011111110  
:Out

01100111010001010010001100000001  
:B  
01111011111100110110101011100010  
:C

---

B AND C  
01100011010000010010001000000000

:Out

10011000101110101101110011111110  
:!B AND D  
01100011010000010010001000000000  
:B AND C

---

(!B AND D) OR (B AND C)  
111110111111011111111011111110  
:F

01011010100000100111100110011001  
:K  
01100100111000100100010001111100  
:A lrot 5  
111110111111011111111011111110  
:F

---

:(A lrot 5) + F  
101100000110111100100001101111010  
:Out

101100000110111100100001101111010  
:(A lrot 5) + F  
00010000001100100101010001110110  
:E

---

:(A lrot 5) + F + E  
1101110001000100001001011111110000  
:Out

1101110001000100001001011111110000  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11111001011100100110001000110001001  
:Out

11111001011100100110001000110001001

:(A lrot 5) + F + E + K  
01110100011011110110011101110010  
:Word 1

---

:(A lrot 5) + F + E + K + Word 1  
100001000000000000100111100011111011  
:temp

01000000000000100111100011111011  
:truncated temp  
10011000101110101101110011111110  
:E = D  
01111011111100110110101011100010  
:D = C  
01011001110100010100100011000000  
:C = B Left Rotate 30  
11100011001001110001001000100011  
:B = A  
01000000000000100111100011111011  
:A = Temp

---

Word 2

00011100110110001110110111011100  
:!B  
01111011111100110110101011100010  
:D

---

!B AND D  
00011000110100000110100011000000  
:Out

11100011001001110001001000100011  
:B  
01011001110100010100100011000000  
:C

---

B AND C  
01000001000000010000000000000000  
:Out

00011000110100000110100011000000  
:!B AND D  
01000001000000010000000000000000  
:B AND C

---

(!B AND D) OR (B AND C)  
01011001110100010110100011000000  
:F

01011010100000100111100110011001  
:K  
00000000010011110001111101101000  
:A lrot 5  
01011001110100010110100011000000  
:F

---

:(A lrot 5) + F  
101011010001000001000100000101000  
:Out

101011010001000001000100000101000  
:(A lrot 5) + F  
10011000101110101101110011111110  
:E

---

:(A lrot 5) + F + E  
111110010110110110110010100100110  
:Out

111110010110110110110010100100110  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
1000100110101011101110111101011111  
:Out

1000100110101011101110111101011111  
:(A lrot 5) + F + E + K  
01100001011100000110100001111001  
:Word 2

---

:(A lrot 5) + F + E + K + Word 2  
110010101110110011100100011100111000  
:temp

10101110110011100100011100111000  
:truncated temp  
01111011111100110110101011100010  
:E = D  
01011001110100010100100011000000  
:D = C  
11111000110010011100010010001000  
:C = B Left Rotate 30  
01000000000000100111100011111011  
:B = A  
10101110110011100100011100111000  
:A = Temp

---

Word 3

1011111111111011000011100000100  
:!B  
01011001110100010100100011000000  
:D

---

!B AND D  
00011001110100010000000000000000  
:Out

01000000000000100111100011111011  
:B  
11111000110010011100010010001000  
:C

---

B AND C  
0100000000000000100000010001000  
:Out

00011001110100010000000000000000  
:!B AND D  
0100000000000000100000010001000

:B AND C

---

(!B AND D) OR (B AND C)

01011001110100010100000010001000

:F

01011010100000100111100110011001

:K

11011001110010001110011100010101

:A lrot 5

01011001110100010100000010001000

:F

---

:(A lrot 5) + F

100110011100110100010011110011101

:Out

100110011100110100010011110011101

:(A lrot 5) + F

01111011111100110110101011100010

:E

---

:(A lrot 5) + F + E

111010111110001101100100100111111

:Out

111010111110001101100100100111111

:(A lrot 5) + F + E

01011010100000100111100110011001

:K

---

:(A lrot 5) + F + E + K

10000001010000100000000110000011000

:Out

10000001010000100000000110000011000

:(A lrot 5) + F + E + K

10000000000000000000000000000000

:Word 3

---

:(A lrot 5) + F + E + K + Word 3

110010001010000100000000110000011000

:temp

10001010000100000000110000011000

:truncated temp

01011001110100010100100011000000

:E = D

11111000110010011100010010001000

:D = C

11010000000000001001111000111110

:C = B Left Rotate 30

10101110110011100100011100111000

:B = A

10001010000100000000110000011000

:A = Temp

---

Word 4

01010001001100011011100011000111

:!B

11111000110010011100010010001000

:D

---

!B AND D

01010000000000011000000010000000

:Out

10101110110011100100011100111000

:B

11010000000000001001111000111110

:C

---

B AND C

1000000000000000000011000111000

:Out

01010000000000011000000010000000

:!B AND D

1000000000000000000011000111000

:B AND C

---

(!B AND D) OR (B AND C)

11010000000000011000011010111000  
:F

01011010100000100111100110011001  
:K  
01000010000000011000001100010001  
:A lrot 5  
11010000000000011000011010111000  
:F

---

:(A lrot 5) + F  
100010010000000110000100111001001  
:Out

100010010000000110000100111001001  
:(A lrot 5) + F  
01011001110100010100100011000000  
:E

---

:(A lrot 5) + F + E  
1101101011110101000101001010001001  
:Out

1101101011110101000101001010001001  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11111000110010101101100110000100010  
:Out

11111000110010101101100110000100010  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 4

---

:(A lrot 5) + F + E + K + Word 4  
11111000110010101101100110000100010  
:temp

```
11000110010101101100110000100010
:truncated temp
11111000110010011100010010001000
:E = D
11010000000000001001111000111110
:D = C
00101011101100111001000111001110
:C = B Left Rotate 30
10001010000100000000110000011000
:B = A
11000110010101101100110000100010
:A = Temp
```

---

Word 5

```
0111010111101111111001111100111
:!B
11010000000000001001111000111110
:D
```

---

```
!B AND D
01010000000000001001001000100110
:Out
```

```
10001010000100000000110000011000
:B
00101011101100111001000111001110
:C
```

---

```
B AND C
00001010000100000000000000001000
:Out
```

```
01010000000000001001001000100110
:!B AND D
00001010000100000000000000001000
:B AND C
```

---

```
(!B AND D) OR (B AND C)
01011010000100001001001000101110
:F
```

01011010100000100111100110011001  
:K  
11001010110110011000010001011000  
:A lrot 5  
01011010000100001001001000101110  
:F

---

:(A lrot 5) + F  
100100100111010100001011010000110  
:Out

100100100111010100001011010000110  
:(A lrot 5) + F  
11111000110010011100010010001000  
:E

---

:(A lrot 5) + F + E  
1000011101101100111101101100001110  
:Out

1000011101101100111101101100001110  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11001111000001101100101010010100111  
:Out

11001111000001101100101010010100111  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 5

---

:(A lrot 5) + F + E + K + Word 5  
111001111000001101100101010010100111  
:temp

01111000001101100101010010100111  
:truncated temp

1101000000000001001111000111110  
:E = D  
00101011101100111001000111001110  
:D = C  
00100010100001000000001100000110  
:C = B Left Rotate 30  
11000110010101101100110000100010  
:B = A  
01111000001101100101010010100111  
:A = Temp

---

Word 6

00111001101010010011001111011101  
:!B  
00101011101100111001000111001110  
:D

---

!B AND D  
00101001101000010001000111001100  
:Out

11000110010101101100110000100010  
:B  
00100010100001000000001100000110  
:C

---

B AND C  
00000010000001000000000000000010  
:Out

00101001101000010001000111001100  
:!B AND D  
00000010000001000000000000000010  
:B AND C

---

(!B AND D) OR (B AND C)  
00101011101001010001000111001110  
:F

01011010100000100111100110011001

:K  
00000110110010101001010011101111  
:A lrot 5  
00101011101001010001000111001110  
:F

---

:(A lrot 5) + F  
100110010011011111010011010111101  
:Out

100110010011011111010011010111101  
:(A lrot 5) + F  
11010000000000001001111000111110  
:E

---

:(A lrot 5) + F + E  
1000000010011100000100010011111011  
:Out

1000000010011100000100010011111011  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11001011100111100101011111010010100  
:Out

11001011100111100101011111010010100  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 6

---

:(A lrot 5) + F + E + K + Word 6  
111001011100111100101011111010010100  
:temp

01011100111100101011111010010100  
:truncated temp  
00101011101100111001000111001110  
:E = D  
00100010100001000000001100000110

:D = C  
10110001100101011011001100001000  
:C = B Left Rotate 30  
01111000001101100101010010100111  
:B = A  
01011100111100101011111010010100  
:A = Temp

---

Word 7

10000111110010011010101101011000  
:!B  
00100010100001000000001100000110  
:D

---

!B AND D  
00000010100000000000001100000000  
:Out

01111000001101100101010010100111  
:B  
10110001100101011011001100001000  
:C

---

B AND C  
00110000000101000001000000000000  
:Out

00000010100000000000001100000000  
:!B AND D  
00110000000101000001000000000000  
:B AND C

---

(!B AND D) OR (B AND C)  
00110010100101000001001100000000  
:F

01011010100000100111100110011001  
:K  
10011110010101111101001010001011  
:A lrot 5

00110010100101000001001100000000  
:F

---

:(A lrot 5) + F  
111010000111010111110010110001011  
:Out

111010000111010111110010110001011  
:(A lrot 5) + F  
00101011101100111001000111001110  
:E

---

:(A lrot 5) + F + E  
111111100100111110111011101011001  
:Out

111111100100111110111011101011001  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
10001010111001000011111000011110010  
:Out

10001010111001000011111000011110010  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 7

---

:(A lrot 5) + F + E + K + Word 7  
110001010111001000011111000011110010  
:temp

01010111001000011111000011110010  
:truncated temp  
00100010100001000000001100000110  
:E = D  
10110001100101011011001100001000  
:D = C  
11011110000011011001010100101001  
:C = B Left Rotate 30

01011100111100101011111010010100  
:B = A  
01010111001000011111000011110010  
:A = Temp

---

Word 8

10100011000011010100000101101011  
:!B  
10110001100101011011001100001000  
:D

---

!B AND D  
10100001000001010000000100001000  
:Out

01011100111100101011111010010100  
:B  
11011110000011011001010100101001  
:C

---

B AND C  
01011100000000001001010000000000  
:Out

10100001000001010000000100001000  
:!B AND D  
01011100000000001001010000000000  
:B AND C

---

(!B AND D) OR (B AND C)  
1111101000001011001010100001000  
:F

01011010100000100111100110011001  
:K  
11100100001111100001111001001010  
:A lrot 5  
1111101000001011001010100001000  
:F

---

:(A lrot 5) + F  
111100001010000111011001101010010  
:Out

111100001010000111011001101010010  
:(A lrot 5) + F  
00100010100001000000001100000110  
:E

---

:(A lrot 5) + F + E  
1000000011110001111011011001011000  
:Out

1000000011110001111011011001011000  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
1100101111001001010001011111110001  
:Out

1100101111001001010001011111110001  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 8

---

:(A lrot 5) + F + E + K + Word 8  
11100101111001001010001011111110001  
:temp

0101111001001010001011111110001  
:truncated temp  
10110001100101011011001100001000  
:E = D  
11011110000011011001010100101001  
:D = C  
00010111001111001010111110100101  
:C = B Left Rotate 30  
01010111001000011111000011110010  
:B = A  
0101111001001010001011111110001

:A = Temp

---

Word 9

10101000110111100000111100001101  
:!B  
11011110000011011001010100101001  
:D

---

!B AND D  
10001000000011000000010100001001  
:Out

01010111001000011111000011110010  
:B  
00010111001111001010111110100101  
:C

---

B AND C  
00010111001000001010000010100000  
:Out

10001000000011000000010100001001  
:!B AND D  
00010111001000001010000010100000  
:B AND C

---

(!B AND D) OR (B AND C)  
10011111001011001010010110101001  
:F

01011010100000100111100110011001  
:K  
11001001010001011111111000101011  
:A lrot 5  
10011111001011001010010110101001  
:F

---

:(A lrot 5) + F  
101101000011100101010001111010100  
:Out

101101000011100101010001111010100  
:(A lrot 5) + F  
10110001100101011011001100001000  
:E

---

:(A lrot 5) + F + E  
1000011010000010000101011011011100  
:Out

1000011010000010000101011011011100  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11001110100100010101101000001110101  
:Out

11001110100100010101101000001110101  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 9

---

:(A lrot 5) + F + E + K + Word 9  
111001110100100010101101000001110101  
:temp

01110100100010101101000001110101  
:truncated temp  
11011110000011011001010100101001  
:E = D  
00010111001111001010111110100101  
:D = C  
10010101110010000111110000111100  
:C = B Left Rotate 30  
0101111001001010001011111110001  
:B = A  
01110100100010101101000001110101  
:A = Temp

---

Word 10

10100001101101011101000000001110

:!B

00010111001111001010111110100101

:D

---

!B AND D

00000001001101001000000000000100

:Out

0101111001001010001011111110001

:B

10010101110010000111110000111100

:C

---

B AND C

00010100010010000010110000110000

:Out

00000001001101001000000000000100

:!B AND D

00010100010010000010110000110000

:B AND C

---

(!B AND D) OR (B AND C)

00010101011111001010110000110100

:F

01011010100000100111100110011001

:K

10010001010110100000111010101110

:A lrot 5

00010101011111001010110000110100

:F

---

:(A lrot 5) + F

110100110110101101011101011100010

:Out

110100110110101101011101011100010

:(A lrot 5) + F

11011110000011011001010100101001

:E

---

:(A lrot 5) + F + E

1010000100111001000101000000001011

:Out

1010000100111001000101000000001011

:(A lrot 5) + F + E

01011010100000100111100110011001

:K

---

:(A lrot 5) + F + E + K

11011011111011001101100100110100100

:Out

11011011111011001101100100110100100

:(A lrot 5) + F + E + K

00000000000000000000000000000000

:Word 10

---

:(A lrot 5) + F + E + K + Word 10

111011011111011001101100100110100100

:temp

1101111011001101100100110100100

:truncated temp

00010111001111001010111110100101

:E = D

10010101110010000111110000111100

:D = C

01010111100100101000101111111100

:C = B Left Rotate 30

01110100100010101101000001110101

:B = A

1101111011001101100100110100100

:A = Temp

---

Word 11

10001011011101010010111110001010

:!B  
10010101110010000111110000111100  
:D

---

!B AND D  
10000001010000000010110000001000  
:Out

01110100100010101101000001110101  
:B  
0101011110010010100010111111100  
:C

---

B AND C  
01010100100000101000000001110100  
:Out

10000001010000000010110000001000  
:!B AND D  
01010100100000101000000001110100  
:B AND C

---

(!B AND D) OR (B AND C)  
11010101110000101010110001111100  
:F

01011010100000100111100110011001  
:K  
11101100110110010011010010011011  
:A lrot 5  
11010101110000101010110001111100  
:F

---

:(A lrot 5) + F  
111000010100110111110000100010111  
:Out

111000010100110111110000100010111  
:(A lrot 5) + F  
00010111001111001010111110100101  
:E

---

:(A lrot 5) + F + E  
1111011001110110001001000010111100  
:Out

1111011001110110001001000010111100  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
10000110100010110110000101001010101  
:Out

10000110100010110110000101001010101  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 11

---

:(A lrot 5) + F + E + K + Word 11  
110000110100010110110000101001010101  
:temp

00110100010110110000101001010101  
:truncated temp  
10010101110010000111110000111100  
:E = D  
01010111100100101000101111111100  
:D = C  
01011101001000101011010000011101  
:C = B Left Rotate 30  
11011111011001101100100110100100  
:B = A  
00110100010110110000101001010101  
:A = Temp

---

Word 12

00100000100110010011011001011011  
:!B  
01010111100100101000101111111100  
:D

---

!B AND D  
00000000100100000000001001011000  
:Out

1101111011001101100100110100100  
:B  
01011101001000101011010000011101  
:C

---

B AND C  
01011101001000101000000000000100  
:Out

00000000100100000000001001011000  
:!B AND D  
01011101001000101000000000000100  
:B AND C

---

(!B AND D) OR (B AND C)  
01011101101100101000001001011100  
:F

01011010100000100111100110011001  
:K  
10001011011000010100101010100110  
:A lrot 5  
01011101101100101000001001011100  
:F

---

:(A lrot 5) + F  
111101001000100111100110100000010  
:Out

111101001000100111100110100000010  
:(A lrot 5) + F  
10010101110010000111110000111100  
:E

---

:(A lrot 5) + F + E  
100111110110111000100100100111110  
:Out

100111110110111000100100100111110  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11011011001010111101100001011010111  
:Out

11011011001010111101100001011010111  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 12

---

:(A lrot 5) + F + E + K + Word 12  
111011011001010111101100001011010111  
:temp

11011001010111101100001011010111  
:truncated temp  
01010111100100101000101111111100  
:E = D  
01011101001000101011010000011101  
:D = C  
00110111110110011011001001101001  
:C = B Left Rotate 30  
00110100010110110000101001010101  
:B = A  
11011001010111101100001011010111  
:A = Temp

---

Word 13

11001011101001001111010110101010  
:!B  
01011101001000101011010000011101  
:D

---

!B AND D  
01001001001000001011010000001000

:Out

00110100010110110000101001010101

:B

00110111110110011011001001101001

:C

---

B AND C

00110100010110010000001001000001

:Out

01001001001000001011010000001000

!:B AND D

00110100010110010000001001000001

:B AND C

---

(!B AND D) OR (B AND C)

0111101011110011011011001001001

:F

01011010100000100111100110011001

:K

00101011110110000101101011111011

:A lrot 5

0111101011110011011011001001001

:F

---

:(A lrot 5) + F

110101001010100100001000101000100

:Out

110101001010100100001000101000100

:(A lrot 5) + F

01010111100100101000101111111100

:E

---

:(A lrot 5) + F + E

1000000000111001001001110101000000

:Out

1000000000111001001001110101000000

:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11001011011011001110001011011011001  
:Out

11001011011011001110001011011011001  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 13

---

:(A lrot 5) + F + E + K + Word 13  
111001011011011001110001011011011001  
:temp

01011011011001110001011011011001  
:truncated temp  
01011101001000101011010000011101  
:E = D  
00110111110110011011001001101001  
:D = C  
01001101000101101100001010010101  
:C = B Left Rotate 30  
11011001010111101100001011010111  
:B = A  
01011011011001110001011011011001  
:A = Temp

---

Word 14

00100110101000010011110100101000  
:!B  
00110111110110011011001001101001  
:D

---

!B AND D  
00100110100000010011000000101000  
:Out

11011001010111101100001011010111  
:B  
01001101000101101100001010010101  
:C

---

B AND C  
01001001000101101100001010010101  
:Out

00100110100000010011000000101000  
:!B AND D  
01001001000101101100001010010101  
:B AND C

---

(!B AND D) OR (B AND C)  
011011110010111111001010111101  
:F

01011010100000100111100110011001  
:K  
01101100111000101101101100101011  
:A lrot 5  
0110111110010111111001010111101  
:F

---

(A lrot 5) + F  
111011100011110101100110111101000  
:Out

111011100011110101100110111101000  
:(A lrot 5) + F  
01011101001000101011010000011101  
:E

---

(A lrot 5) + F + E  
1000111001100111011000001000000101  
:Out

1000111001100111011000001000000101  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
110100101000001111111101110011110  
:Out

110100101000001111111101110011110  
:(A lrot 5) + F + E + K  
00000000000000000000000000000000  
:Word 14

---

:(A lrot 5) + F + E + K + Word 14  
1110100101000001111111101110011110  
:temp

100101000001111111101110011110  
:truncated temp  
00110111110110011011001001101001  
:E = D  
01001101000101101100001010010101  
:D = C  
11110110010101111011000010110101  
:C = B Left Rotate 30  
01011011011001110001011011011001  
:B = A  
100101000001111111101110011110  
:A = Temp

---

Word 15

10100100100110001110100100100110  
:!B  
01001101000101101100001010010101  
:D

---

!B AND D  
00000100000100001100000000000100  
:Out

01011011011001110001011011011001  
:B  
11110110010101111011000010110101

:C

---

B AND C

01010010010001110001000010010001

:Out

00000100000100001100000000000100

!:B AND D

01010010010001110001000010010001

:B AND C

---

(!B AND D) OR (B AND C)

01010110010101111101000010010101

:F

01011010100000100111100110011001

:K

1000001111111110111001111010010

:A lrot 5

01010110010101111101000010010101

:F

---

:(A lrot 5) + F

111011010010101110100010001100111

:Out

111011010010101110100010001100111

:(A lrot 5) + F

00110111110110011011001001101001

:E

---

:(A lrot 5) + F + E

1000010010001100001111011011010000

:Out

1000010010001100001111011011010000

:(A lrot 5) + F + E

01011010100000100111100110011001

:K

---

:(A lrot 5) + F + E + K

11001101100101100110111000001101001

:Out

11001101100101100110111000001101001

:(A lrot 5) + F + E + K

0000000000000000000000001100000

:Word 15

---

:(A lrot 5) + F + E + K + Word 15

111001101100101100110111000011001001

:temp

01101100101100110111000011001001

:truncated temp

01001101000101101100001010010101

:E = D

11110110010101111011000010110101

:D = C

01010110110110011100010110110110

:C = B Left Rotate 30

1001010000011111111101110011110

:B = A

01101100101100110111000011001001

:A = Temp

---

Word 16

0110101111100000000010001100001

!:B

11110110010101111011000010110101

:D

---

!B AND D

0110001001000000000000000100001

:Out

1001010000011111111101110011110

:B

01010110110110011100010110110110

:C

---

B AND C

00010100000110011100000110010110  
:Out

0110001001000000000000000100001  
:!B AND D  
00010100000110011100000110010110  
:B AND C

---

(!B AND D) OR (B AND C)  
01110110010110011100000110110111  
:F

01011010100000100111100110011001  
:K  
10010110011011100001100100101101  
:A lrot 5  
01110110010110011100000110110111  
:F

---

(A lrot 5) + F  
100001100110001111101101011100100  
:Out

100001100110001111101101011100100  
:(A lrot 5) + F  
01001101000101101100001010010101  
:E

---

(A lrot 5) + F + E  
1101011001110111101001110101111001  
:Out

1101011001110111101001110101111001  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

(A lrot 5) + F + E + K  
11110110100011000010001011100010010  
:Out

11110110100011000010001011100010010  
:(A lrot 5) + F + E + K  
01000100000001000010001000010010  
:Word 16

---

:(A lrot 5) + F + E + K + Word 16  
11111111000011001010011100100100100  
:temp

11111000011001010011100100100100  
:truncated temp  
11110110010101111011000010110101  
:E = D  
01010110110110011100010110110110  
:D = C  
1010010100000111111111011100111  
:C = B Left Rotate 30  
01101100101100110111000011001001  
:B = A  
11111000011001010011100100100100  
:A = Temp

---

Word 17

10010011010011001000111100110110  
:!B  
01010110110110011100010110110110  
:D

---

!B AND D  
00010010010010001000010100110110  
:Out

01101100101100110111000011001001  
:B  
1010010100000111111111011100111  
:C

---

B AND C  
00100100000000110111000011000001  
:Out

00010010010010001000010100110110  
:!B AND D  
00100100000000110111000011000001  
:B AND C

---

(!B AND D) OR (B AND C)  
00110110010010111111010111110111  
:F

01011010100000100111100110011001  
:K  
00001100101001110010010010011111  
:A lrot 5  
00110110010010111111010111110111  
:F

---

:(A lrot 5) + F  
101000010111100110001101010010110  
:Out

101000010111100110001101010010110  
:(A lrot 5) + F  
11110110010101111011000010110101  
:E

---

:(A lrot 5) + F + E  
1000111001010010101100101101001011  
:Out

1000111001010010101100101101001011  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11010010011110011010100010011100100  
:Out

11010010011110011010100010011100100  
:(A lrot 5) + F + E + K

11101000110111101100111011100101

:Word 17

---

:(A lrot 5) + F + E + K + Word 17

111101111100101011000001001111001001

:temp

01111100101011000001001111001001

:truncated temp

01010110110110011100010110110110

:E = D

1010010100000111111111011100111

:D = C

01011011001011001101110000110010

:C = B Left Rotate 30

11111000011001010011100100100100

:B = A

01111100101011000001001111001001

:A = Temp

---

Word 18

00000111100110101100011011011011

!B

1010010100000111111111011100111

:D

---

!B AND D

00000101000000101100011011000011

:Out

11111000011001010011100100100100

:B

01011011001011001101110000110010

:C

---

B AND C

01011000001001000001100000100000

:Out

00000101000000101100011011000011

:!B AND D  
01011000001001000001100000100000  
:B AND C

---

(!B AND D) OR (B AND C)  
01011101001001101101111011100011  
:F

01011010100000100111100110011001  
:K  
10010101100000100111100100101111  
:A lrot 5  
01011101001001101101111011100011  
:F

---

:(A lrot 5) + F  
111110010101010010101100000010010  
:Out

111110010101010010101100000010010  
:(A lrot 5) + F  
01010110110110011100010110110110  
:E

---

:(A lrot 5) + F + E  
1001001001100000110001110111001000  
:Out

1001001001100000110001110111001000  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
11010100100000001011001011101100001  
:Out

11010100100000001011001011101100001  
:(A lrot 5) + F + E + K  
11000010111000001101000000110010  
:Word 18

---

:(A lrot 5) + F + E + K + Word 18  
111101100110111001100110011110010011  
:temp

01100110111001100110011110010011  
:truncated temp  
1010010100000111111111011100111  
:E = D  
01011011001011001101110000110010  
:D = C  
00111110000110010100111001001001  
:C = B Left Rotate 30  
01111100101011000001001111001001  
:B = A  
01100110111001100110011110010011  
:A = Temp

---

Word 19

10000011010100111110110000110110  
:!B  
01011011001011001101110000110010  
:D

---

!B AND D  
00000011000000001100110000110010  
:Out

01111100101011000001001111001001  
:B  
00111110000110010100111001001001  
:C

---

B AND C  
00111100000010000000001001001001  
:Out

00000011000000001100110000110010  
:!B AND D  
00111100000010000000001001001001  
:B AND C

---

(!B AND D) OR (B AND C)  
00111111000010001100111001111011  
:F

01011010100000100111100110011001  
:K  
11011100110011001111001001101100  
:A lrot 5  
00111111000010001100111001111011  
:F

---

:(A lrot 5) + F  
100011011110101011100000011100111  
:Out

100011011110101011100000011100111  
:(A lrot 5) + F  
1010010100000111111111011100111  
:E

---

:(A lrot 5) + F + E  
111100000011011101101111111001110  
:Out

111100000011011101101111111001110  
:(A lrot 5) + F + E  
01011010100000100111100110011001  
:K

---

:(A lrot 5) + F + E + K  
10000011011011000000011100101100111  
:Out

10000011011011000000011100101100111  
:(A lrot 5) + F + E + K  
10001000000010000100010000100101  
:Word 19

---

:(A lrot 5) + F + E + K + Word 19  
110010100011011010000111110110001100  
:temp

10100011011010000111110110001100  
:truncated temp  
01011011001011001101110000110010  
:E = D  
00111110000110010100111001001001  
:D = C  
0101111001010110000010011110010  
:C = B Left Rotate 30  
01100110111001100110011110010011  
:B = A  
10100011011010000111110110001100  
:A = Temp

---

Word 20

01100110111001100110011110010011  
:B  
01011111001010110000010011110010  
:C

---

B XOR C  
00111001110011010110001101100001  
:Out

00111001110011010110001101100001  
:B XOR C  
00111110000110010100111001001001  
:D

---

(B XOR C) XOR D  
00000111110101000010110100101000  
:F

01101110110110011110101110100001  
:K  
01101101000011111011000110010100  
:A lrot 5  
00000111110101000010110100101000  
:F

---

:(A lrot 5) + F  
101110100111000111101111010111100  
:Out

101110100111000111101111010111100  
:(A lrot 5) + F  
01011011001011001101110000110010  
:E

---

:(A lrot 5) + F + E  
1111010000000100001011101011101110  
:Out

1111010000000100001011101011101110  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
10000111110111010101010011010001111  
:Out

10000111110111010101010011010001111  
:(A lrot 5) + F + E + K  
11010001101111011001110111001011  
:Word 20

---

:(A lrot 5) + F + E + K + Word 20  
110100010000101010000100010001011010  
:temp

00010000101010000100010001011010  
:truncated temp  
00111110000110010100111001001001  
:E = D  
01011111001010110000010011110010  
:D = C  
11011001101110011001100111100100  
:C = B Left Rotate 30  
10100011011010000111110110001100  
:B = A  
00010000101010000100010001011010

:A = Temp

---

Word 21

10100011011010000111110110001100

:B

11011001101110011001100111100100

:C

---

B XOR C

01111010110100011110010001101000

:Out

01111010110100011110010001101000

:B XOR C

0101111001010110000010011110010

:D

---

(B XOR C) XOR D

0010010111110101110000010011010

:F

01101110110110011110101110100001

:K

00010101000010001000101101000010

:A lrot 5

0010010111110101110000010011010

:F

---

:(A lrot 5) + F

100111011000000110110101111011100

:Out

100111011000000110110101111011100

:(A lrot 5) + F

00111110000110010100111001001001

:E

---

:(A lrot 5) + F + E

1101111001000111001011101000100101

:Out

1101111001000111001011101000100101  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
111110011111101101010010111000110  
:Out

111110011111101101010010111000110  
:(A lrot 5) + F + E + K  
10000101110000011010000001100101  
:Word 21

---

:(A lrot 5) + F + E + K + Word 21  
100001101101101110000100011000101011  
:temp

01101101101110000100011000101011  
:truncated temp  
01011111001010110000010011110010  
:E = D  
11011001101110011001100111100100  
:D = C  
00101000110110100001111101100011  
:C = B Left Rotate 30  
00010000101010000100010001011010  
:B = A  
01101101101110000100011000101011  
:A = Temp

---

Word 22

00010000101010000100010001011010  
:B  
00101000110110100001111101100011  
:C

---

B XOR C  
00111000011100100101101100111001

:Out

00111000011100100101101100111001  
:B XOR C  
11011001101110011001100111100100  
:D

---

(B XOR C) XOR D  
11100001110010111100001011011101  
:F

01101110110110011110101110100001  
:K  
10110111000010001100010101101101  
:A lrot 5  
11100001110010111100001011011101  
:F

---

:(A lrot 5) + F  
110011000110101001000100001001010  
:Out

110011000110101001000100001001010  
:(A lrot 5) + F  
01011111001010110000010011110010  
:E

---

:(A lrot 5) + F + E  
111110111111111111000110100111100  
:Out

111110111111111111000110100111100  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
10001100110110110010111100011011101  
:Out

10001100110110110010111100011011101

:(A lrot 5) + F + E + K  
00010000000100001000100001001011  
:Word 22

---

:(A lrot 5) + F + E + K + Word 22  
11000111011011101010000000100101000  
:temp

01110110111010100000000100101000  
:truncated temp  
11011001101110011001100111100100  
:E = D  
00101000110110100001111101100011  
:D = C  
10000100001010100001000100010110  
:C = B Left Rotate 30  
01101101101110000100011000101011  
:B = A  
01110110111010100000000100101000  
:A = Temp

---

Word 23

01101101101110000100011000101011  
:B  
10000100001010100001000100010110  
:C

---

B XOR C  
11101001100100100101011100111101  
:Out

11101001100100100101011100111101  
:B XOR C  
00101000110110100001111101100011  
:D

---

(B XOR C) XOR D  
11000001010010000100100001011110  
:F

01101110110110011110101110100001  
:K  
11011101010000000010010100001110  
:A lrot 5  
11000001010010000100100001011110  
:F

---

:(A lrot 5) + F  
110011110100010000110110101101100  
:Out

110011110100010000110110101101100  
:(A lrot 5) + F  
11011001101110011001100111100100  
:E

---

:(A lrot 5) + F + E  
1001111000010000100000011101010000  
:Out

1001111000010000100000011101010000  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
1101110011100011011111001011110001  
:Out

1101110011100011011111001011110001  
:(A lrot 5) + F + E + K  
10100011011110110011101101010111  
:Word 23

---

:(A lrot 5) + F + E + K + Word 23  
111110001010100101110010111001001000  
:temp

10001010100101110010111001001000  
:truncated temp  
00101000110110100001111101100011  
:E = D

10000100001010100001000100010110  
:D = C  
11011011011011100001000110001010  
:C = B Left Rotate 30  
01110110111010100000000100101000  
:B = A  
10001010100101110010111001001000  
:A = Temp

---

Word 24

01110110111010100000000100101000  
:B  
11011011011011100001000110001010  
:C

---

B XOR C  
10101101100001000001000010100010  
:Out

10101101100001000001000010100010  
:B XOR C  
10000100001010100001000100010110  
:D

---

(B XOR C) XOR D  
00101001101011100000000110110100  
:F

01101110110110011110101110100001  
:K  
01010010111001011100100100010001  
:A lrot 5  
00101001101011100000000110110100  
:F

---

:(A lrot 5) + F  
101111100100100111100101011000101  
:Out

101111100100100111100101011000101

:(A lrot 5) + F  
00101000110110100001111101100011  
:E

---

:(A lrot 5) + F + E  
1110100101011011011110101000101000  
:Out

1110100101011011011110101000101000  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
10000010100010001111101010111001001  
:Out

10000010100010001111101010111001001  
:(A lrot 5) + F + E + K  
10000011100010110000010011101111  
:Word 24

---

:(A lrot 5) + F + E + K + Word 24  
110010010111110100101101101010111000  
:temp

10010111110100101101101010111000  
:truncated temp  
10000100001010100001000100010110  
:E = D  
11011011011011100001000110001010  
:D = C  
00011101101110101000000001001010  
:C = B Left Rotate 30  
10001010100101110010111001001000  
:B = A  
10010111110100101101101010111000  
:A = Temp

---

Word 25

10001010100101110010111001001000  
:B  
00011101101110101000000001001010  
:C

---

B XOR C  
10010111001011011010111000000010  
:Out

10010111001011011010111000000010  
:B XOR C  
11011011011011100001000110001010  
:D

---

(B XOR C) XOR D  
0100110001000011101111110001000  
:F

01101110110110011110101110100001  
:K  
11111010010110110101011100010010  
:A lrot 5  
0100110001000011101111110001000  
:F

---

(A lrot 5) + F  
101000110100111110001011010011010  
:Out

101000110100111110001011010011010  
:(A lrot 5) + F  
10000100001010100001000100010110  
:E

---

(A lrot 5) + F + E  
1111001010110010010010011110110000  
:Out

1111001010110010010010011110110000  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
10000111001101000110001001101010001  
:Out

10000111001101000110001001101010001  
:(A lrot 5) + F + E + K  
11110001100111001000110101011101  
:Word 25

---

:(A lrot 5) + F + E + K + Word 25  
11010010101100111111010000010101110  
:temp

0010101100111111010000010101110  
:truncated temp  
11011011011011100001000110001010  
:E = D  
00011101101110101000000001001010  
:D = C  
00100010101001011100101110010010  
:C = B Left Rotate 30  
10010111110100101101101010111000  
:B = A  
0010101100111111010000010101110  
:A = Temp

---

Word 26

10010111110100101101101010111000  
:B  
00100010101001011100101110010010  
:C

---

B XOR C  
10110101011101110001000100101010  
:Out

10110101011101110001000100101010  
:B XOR C  
00011101101110101000000001001010

:D

---

(B XOR C) XOR D

10101000110011011001000101100000

:F

01101110110110011110101110100001

:K

01100111111101000001010111000101

:A lrot 5

10101000110011011001000101100000

:F

---

:(A lrot 5) + F

100010000110000011010011100100101

:Out

100010000110000011010011100100101

:(A lrot 5) + F

11011011011011100001000110001010

:E

---

:(A lrot 5) + F + E

1111101100001011111011100010101111

:Out

1111101100001011111011100010101111

:(A lrot 5) + F + E

01101110110110011110101110100001

:K

---

:(A lrot 5) + F + E + K

10001011011000010011010010001010000

:Out

10001011011000010011010010001010000

:(A lrot 5) + F + E + K

11000011001101111101011011001010

:Word 26

---

:(A lrot 5) + F + E + K + Word 26

110100011110010000010111101100011010

:temp

00011110010000010111101100011010

:truncated temp

00011101101110101000000001001010

:E = D

00100010101001011100101110010010

:D = C

00100101111101001011011010101110

:C = B Left Rotate 30

00101011001111111010000010101110

:B = A

00011110010000010111101100011010

:A = Temp

---

Word 27

00101011001111111010000010101110

:B

00100101111101001011011010101110

:C

---

B XOR C

00001110110010110001011000000000

:Out

00001110110010110001011000000000

:B XOR C

00100010101001011100101110010010

:D

---

(B XOR C) XOR D

00101100011011101101110110010010

:F

01101110110110011110101110100001

:K

11001000001011110110001101000011

:A lrot 5

00101100011011101101110110010010

:F

---

:(A lrot 5) + F  
111110100100111100100000011010101  
:Out

111110100100111100100000011010101  
:(A lrot 5) + F  
00011101101110101000000001001010  
:E

---

:(A lrot 5) + F + E  
1000010010010110001100000100011111  
:Out

1000010010010110001100000100011111  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
11010000001001100101010110011000000  
:Out

11010000001001100101010110011000000  
:(A lrot 5) + F + E + K  
00010111000001101000000110010100  
:Word 27

---

:(A lrot 5) + F + E + K + Word 27  
111010011000001110010010111001010100  
:temp

10011000001110010010111001010100  
:truncated temp  
00100010101001011100101110010010  
:E = D  
00100101111101001011011010101110  
:D = C  
10001010110011111110100000101011  
:C = B Left Rotate 30  
00011110010000010111101100011010  
:B = A

10011000001110010010111001010100

:A = Temp

---

Word 28

00011110010000010111101100011010

:B

10001010110011111110100000101011

:C

---

B XOR C

10010100100011101001001100110001

:Out

10010100100011101001001100110001

:B XOR C

00100101111101001011011010101110

:D

---

(B XOR C) XOR D

10110001011110100010010110011111

:F

01101110110110011110101110100001

:K

00000111001001011100101010010011

:A lrot 5

10110001011110100010010110011111

:F

---

:(A lrot 5) + F

110111000100111111111000000110010

:Out

110111000100111111111000000110010

:(A lrot 5) + F

00100010101001011100101110010010

:E

---

:(A lrot 5) + F + E

1111011011010001011011101111000100

:Out

1111011011010001011011101111000100

:(A lrot 5) + F + E

01101110110110011110101110100001

:K

---

:(A lrot 5) + F + E + K

10001001010000111111010011101100101

:Out

10001001010000111111010011101100101

:(A lrot 5) + F + E + K

01000000010000100010000100101100

:Word 28

---

:(A lrot 5) + F + E + K + Word 28

110010001010011000011100100010010001

:temp

10001010011000011100100010010001

:truncated temp

00100101111101001011011010101110

:E = D

1000101011001111110100000101011

:D = C

10000111100100000101111011000110

:C = B Left Rotate 30

10011000001110010010111001010100

:B = A

10001010011000011100100010010001

:A = Temp

---

Word 29

10011000001110010010111001010100

:B

10000111100100000101111011000110

:C

---

B XOR C

00011111101010010111000010010010  
:Out

00011111101010010111000010010010  
:B XOR C  
10001010110011111110100000101011  
:D

---

(B XOR C) XOR D  
10010101011001101001100010111001  
:F

01101110110110011110101110100001  
:K  
01001100001110010001001000110001  
:A lrot 5  
10010101011001101001100010111001  
:F

---

:(A lrot 5) + F  
111100001100111111010101011101010  
:Out

111100001100111111010101011101010  
:(A lrot 5) + F  
00100101111101001011011010101110  
:E

---

:(A lrot 5) + F + E  
1000000111100101000110000110011000  
:Out

1000000111100101000110000110011000  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
11001110110011011100100110100111001  
:Out

11001110110011011100100110100111001  
:(A lrot 5) + F + E + K  
10001101111011001110110110011110  
:Word 29

---

:(A lrot 5) + F + E + K + Word 29  
111100000100010110110011101011010111  
:temp

00000100010110110011101011010111  
:truncated temp  
10001010110011111110100000101011  
:E = D  
10000111100100000101111011000110  
:D = C  
00100110000011100100101110010101  
:C = B Left Rotate 30  
10001010011000011100100010010001  
:B = A  
00000100010110110011101011010111  
:A = Temp

---

Word 30

10001010011000011100100010010001  
:B  
00100110000011100100101110010101  
:C

---

B XOR C  
10101100011011111000001100000100  
:Out

10101100011011111000001100000100  
:B XOR C  
10000111100100000101111011000110  
:D

---

(B XOR C) XOR D  
0010101111111111101110111000010  
:F

01101110110110011110101110100001  
:K  
10001011011001110101101011100000  
:A lrot 5  
0010101111111111101110111000010  
:F

---

:(A lrot 5) + F  
110110111011001110011100010100010  
:Out

110110111011001110011100010100010  
:(A lrot 5) + F  
10001010110011111110100000101011  
:E

---

:(A lrot 5) + F + E  
1001000010001101110010000011001101  
:Out

1001000010001101110010000011001101  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
11010110001000100010000110001101110  
:Out

11010110001000100010000110001101110  
:(A lrot 5) + F + E + K  
10000110001001000101011110011010  
:Word 30

---

:(A lrot 5) + F + E + K + Word 30  
111100110111001101010110010000001000  
:temp

00110111001101010110010000001000  
:truncated temp

10000111100100000101111011000110  
:E = D  
00100110000011100100101110010101  
:D = C  
01100010100110000111001000100100  
:C = B Left Rotate 30  
00000100010110110011101011010111  
:B = A  
00110111001101010110010000001000  
:A = Temp

---

Word 31

00000100010110110011101011010111  
:B  
01100010100110000111001000100100  
:C

---

B XOR C  
01100110110000110100100011110011  
:Out

01100110110000110100100011110011  
:B XOR C  
00100110000011100100101110010101  
:D

---

(B XOR C) XOR D  
01000000110011010000001101100110  
:F

01101110110110011110101110100001  
:K  
11100110101011001000000100000110  
:A lrot 5  
01000000110011010000001101100110  
:F

---

:(A lrot 5) + F  
100100111011110011000010001101100  
:Out

100100111011110011000010001101100  
:(A lrot 5) + F  
10000111100100000101111011000110  
:E

---

:(A lrot 5) + F + E  
1110101111000010011110001100110010  
:Out

1110101111000010011110001100110010  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
10000011101111000111100111011010011  
:Out

10000011101111000111100111011010011  
:(A lrot 5) + F + E + K  
00010111110011111010100111111100  
:Word 31

---

:(A lrot 5) + F + E + K + Word 31  
110000110101101100110111100011001111  
:temp

00110101101100110111100011001111  
:truncated temp  
00100110000011100100101110010101  
:E = D  
01100010100110000111001000100100  
:D = C  
11000001000101101100111010110101  
:C = B Left Rotate 30  
00110111001101010110010000001000  
:B = A  
00110101101100110111100011001111  
:A = Temp

---

Word 32

00110111001101010110010000001000

:B

11000001000101101100111010110101

:C

---

B XOR C

11110110001000111010101010111101

:Out

11110110001000111010101010111101

:B XOR C

01100010100110000111001000100100

:D

---

(B XOR C) XOR D

10010100101110111101100010011001

:F

01101110110110011110101110100001

:K

10110110011011110001100111100110

:A lrot 5

10010100101110111101100010011001

:F

---

:(A lrot 5) + F

101001011001010101111001001111111

:Out

101001011001010101111001001111111

:(A lrot 5) + F

00100110000011100100101110010101

:E

---

:(A lrot 5) + F + E

1101110001001110010011111000010100

:Out

1101110001001110010011111000010100

:(A lrot 5) + F + E

01101110110110011110101110100001

:K

---

:(A lrot 5) + F + E + K

1111100000000100110010100110110101

:Out

1111100000000100110010100110110101

:(A lrot 5) + F + E + K

00010001000001100011011010100011

:Word 32

---

:(A lrot 5) + F + E + K + Word 32

11111110001000110010110000001011000

:temp

11110001000110010110000001011000

:truncated temp

01100010100110000111001000100100

:E = D

11000001000101101100111010110101

:D = C

00001101110011010101100100000010

:C = B Left Rotate 30

00110101101100110111100011001111

:B = A

11110001000110010110000001011000

:A = Temp

---

Word 33

00110101101100110111100011001111

:B

00001101110011010101100100000010

:C

---

B XOR C

00111000011111100010000111001101

:Out

00111000011111100010000111001101

:B XOR C  
11000001000101101100111010110101  
:D

---

(B XOR C) XOR D  
11111001011010001110111101111000  
:F

01101110110110011110101110100001  
:K  
00100011001011000000101100011110  
:A lrot 5  
11111001011010001110111101111000  
:F

---

:(A lrot 5) + F  
100011100100101001111101010010110  
:Out

100011100100101001111101010010110  
:(A lrot 5) + F  
01100010100110000111001000100100  
:E

---

:(A lrot 5) + F + E  
110111111001011010110110010111010  
:Out

110111111001011010110110010111010  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
1111101110000001110101100001011011  
:Out

1111101110000001110101100001011011  
:(A lrot 5) + F + E + K  
00101110110111001010000000001110  
:Word 33

---

:(A lrot 5) + F + E + K + Word 33  
100000011100111000111111100001101001  
:temp

00011100111000111111100001101001  
:truncated temp  
11000001000101101100111010110101  
:E = D  
00001101110011010101100100000010  
:D = C  
11001101011011001101111000110011  
:C = B Left Rotate 30  
11110001000110010110000001011000  
:B = A  
00011100111000111111100001101001  
:A = Temp

---

Word 34

11110001000110010110000001011000  
:B  
11001101011011001101111000110011  
:C

---

B XOR C  
00111100011101011011111001101011  
:Out

00111100011101011011111001101011  
:B XOR C  
00001101110011010101100100000010  
:D

---

(B XOR C) XOR D  
00110001101110001110011101101001  
:F

01101110110110011110101110100001  
:K  
10011100011111110000110100100011  
:A lrot 5

00110001101110001110011101101001

:F

---

:(A lrot 5) + F

111001110001101111111010010001100

:Out

111001110001101111111010010001100

:(A lrot 5) + F

11000001000101101100111010110101

:E

---

:(A lrot 5) + F + E

1010001111010011101100001101000001

:Out

1010001111010011101100001101000001

:(A lrot 5) + F + E

01101110110110011110101110100001

:K

---

:(A lrot 5) + F + E + K

1101111110001010001010111011100010

:Out

1101111110001010001010111011100010

:(A lrot 5) + F + E + K

10001111010010100110010110011111

:Word 34

---

:(A lrot 5) + F + E + K + Word 34

11110001101011100110001010010000001

:temp

10001101011100110001010010000001

:truncated temp

00001101110011010101100100000010

:E = D

11001101011011001101111000110011

:D = C

00111100010001100101100000010110

:C = B Left Rotate 30

00011100111000111111100001101001  
:B = A  
10001101011100110001010010000001  
:A = Temp

---

Word 35

00011100111000111111100001101001  
:B  
00111100010001100101100000010110  
:C

---

B XOR C  
00100000101001011010000001111111  
:Out

00100000101001011010000001111111  
:B XOR C  
11001101011011001101111000110011  
:D

---

(B XOR C) XOR D  
11101101110010010111111001001100  
:F

01101110110110011110101110100001  
:K  
10101110011000101001000000110001  
:A lrot 5  
11101101110010010111111001001100  
:F

---

:(A lrot 5) + F  
110011100001011000000111001111101  
:Out

110011100001011000000111001111101  
:(A lrot 5) + F  
00001101110011010101100100000010  
:E

---

:(A lrot 5) + F + E  
1110101001111110010110011101111111  
:Out

1110101001111110010110011101111111  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
10000011000110100110101001100100000  
:Out

10000011000110100110101001100100000  
:(A lrot 5) + F + E + K  
00010111100100101010011011101110  
:Word 35

---

:(A lrot 5) + F + E + K + Word 35  
110000110000011001011111101000001110  
:temp

00110000011001011111101000001110  
:truncated temp  
11001101011011001101111000110011  
:E = D  
00111100010001100101100000010110  
:D = C  
0100011100111000111111000011010  
:C = B Left Rotate 30  
10001101011100110001010010000001  
:B = A  
00110000011001011111101000001110  
:A = Temp

---

Word 36

10001101011100110001010010000001  
:B  
0100011100111000111111000011010  
:C

---

B XOR C

11001010010010111110101010011011

:Out

11001010010010111110101010011011

:B XOR C

00111100010001100101100000010110

:D

---

(B XOR C) XOR D

11110110000011011011001010001101

:F

01101110110110011110101110100001

:K

0000110010111110100000111000110

:A lrot 5

11110110000011011011001010001101

:F

---

:(A lrot 5) + F

100000010110011001111010001010011

:Out

100000010110011001111010001010011

:(A lrot 5) + F

11001101011011001101111000110011

:E

---

:(A lrot 5) + F + E

1111010000001110011101001010000110

:Out

1111010000001110011101001010000110

:(A lrot 5) + F + E

01101110110110011110101110100001

:K

---

:(A lrot 5) + F + E + K

100001111100010011101111000100111

:Out

10000111111000100111011111000100111  
:(A lrot 5) + F + E + K  
01011110011001110010100101000101  
:Word 36

---

:(A lrot 5) + F + E + K + Word 36  
110010011101011110101110011101101100  
:temp

10011101011110101110011101101100  
:truncated temp  
00111100010001100101100000010110  
:E = D  
0100011100111000111111000011010  
:D = C  
01100011010111001100010100100000  
:C = B Left Rotate 30  
00110000011001011111101000001110  
:B = A  
10011101011110101110011101101100  
:A = Temp

---

Word 37

00110000011001011111101000001110  
:B  
01100011010111001100010100100000  
:C

---

B XOR C  
01010011001110010011111100101110  
:Out

01010011001110010011111100101110  
:B XOR C  
0100011100111000111111000011010  
:D

---

(B XOR C) XOR D  
00010100000000011100000100110100

:F

01101110110110011110101110100001

:K

10101111010111001110110110010011

:A lrot 5

00010100000000011100000100110100

:F

---

:(A lrot 5) + F

111000011010111101010111011000111

:Out

111000011010111101010111011000111

:(A lrot 5) + F

00111100010001100101100000010110

:E

---

:(A lrot 5) + F + E

111111111101001010000011011011101

:Out

111111111101001010000011011011101

:(A lrot 5) + F + E

01101110110110011110101110100001

:K

---

:(A lrot 5) + F + E + K

10001101110011111101111001001111110

:Out

10001101110011111101111001001111110

:(A lrot 5) + F + E + K

01001000001110000010011001100110

:Word 37

---

:(A lrot 5) + F + E + K + Word 37

110010110110101101110001100011100100

:temp

10110110101101110001100011100100

:truncated temp  
0100011100111000111111000011010  
:E = D  
01100011010111001100010100100000  
:D = C  
10001100000110010111111010000011  
:C = B Left Rotate 30  
10011101011110101110011101101100  
:B = A  
10110110101101110001100011100100  
:A = Temp

---

Word 38

10011101011110101110011101101100  
:B  
10001100000110010111111010000011  
:C

---

B XOR C  
00010001011000111001100111101111  
:Out

00010001011000111001100111101111  
:B XOR C  
01100011010111001100010100100000  
:D

---

(B XOR C) XOR D  
01110010001111110101110011001111  
:F

01101110110110011110101110100001  
:K  
11010110111000110001110010010110  
:A lrot 5  
01110010001111110101110011001111  
:F

---

:(A lrot 5) + F  
101001001001000100111100101100101  
:Out

101001001001000100111100101100101  
:(A lrot 5) + F  
01000111001110001111111000011010  
:E

---

:(A lrot 5) + F + E  
1110010000010110110111011101111111  
:Out

1110010000010110110111011101111111  
:(A lrot 5) + F + E  
01101110110110011110101110100001  
:K

---

:(A lrot 5) + F + E + K  
1111111111001101010110001100100000  
:Out

1111111111001101010110001100100000  
:(A lrot 5) + F + E + K  
00000100010110101111101110100000  
:Word 38

---

:(A lrot 5) + F + E + K + Word 38  
100000000011100100000101111011000000  
:temp

00000011100100000101111011000000  
:truncated temp  
01100011010111001100010100100000  
:E = D  
10001100000110010111111010000011  
:D = C  
00100111010111101011100111011011  
:C = B Left Rotate 30  
10110110101101110001100011100100  
:B = A  
00000011100100000101111011000000  
:A = Temp

---

Word 39

10110110101101110001100011100100

:B

00100111010111101011100111011011

:C

---

B XOR C

10010001111010011010000100111111

:Out

10010001111010011010000100111111

:B XOR C

10001100000110010111111010000011

:D

---

(B XOR C) XOR D

00011101111100001101111110111100

:F

01101110110110011110101110100001

:K

01110010000010111101100000000000

:A lrot 5

00011101111100001101111110111100

:F

---

:(A lrot 5) + F

11000111111111001011011110111100

:Out

11000111111111001011011110111100

:(A lrot 5) + F

01100011010111001100010100100000

:E

---

:(A lrot 5) + F + E

111110011010110010111110011011100

:Out

111110011010110010111110011011100

:(A lrot 5) + F + E

01101110110110011110101110100001

:K

---

:(A lrot 5) + F + E + K

10001100010001100110110100001111101

:Out

10001100010001100110110100001111101

:(A lrot 5) + F + E + K

00110110100111100110110101100110

:Word 39

---

:(A lrot 5) + F + E + K + Word 39

110010011000110100011101010111100011

:temp

10011000110100011101010111100011

:truncated temp

10001100000110010111111010000011

:E = D

00100111010111101011100111011011

:D = C

00101101101011011100011000111001

:C = B Left Rotate 30

00000011100100000101111011000000

:B = A

10011000110100011101010111100011

:A = Temp

---

Word 40

00000011100100000101111011000000

:B

00101101101011011100011000111001

:C

---

B AND C

00000001100000000100011000000000

:Out

00000011100100000101111011000000

:B  
00100111010111101011100111011011  
:D

---

B AND D  
00000011000100000001100011000000  
:Out

00101101101011011100011000111001  
:C  
00100111010111101011100111011011  
:D

---

C AND D  
00100101000011001000000000011001  
:Out

00000001100000000100011000000000  
:B AND C  
00000011000100000001100011000000  
:B AND D

---

(B AND C) OR (B AND D)  
00000011100100000101111011000000  
:Out

00000011100100000101111011000000  
:(B AND C) OR (B AND D)  
00100101000011001000000000011001  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
00100111100111001101111011011001  
:F

10001111000110111011110011011100  
:K  
00011010001110101011110001110011  
:A lrot 5  
00100111100111001101111011011001  
:F

---

:(A lrot 5) + F  
101000001110101111001101101001100  
:Out

101000001110101111001101101001100  
:(A lrot 5) + F  
10001100000110010111111010000011  
:E

---

:(A lrot 5) + F + E  
1111001101111100010001100111001111  
:Out

1111001101111100010001100111001111  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
10001011101000011001101011010101011  
:Out

10001011101000011001101011010101011  
:(A lrot 5) + F + E + K  
00110011000001011000010111000000  
:Word 40

---

:(A lrot 5) + F + E + K + Word 40  
110010010000000100100101110001101011  
:temp

10010000000100100101110001101011  
:truncated temp  
00100111010111101011100111011011  
:E = D  
00101101101011011100011000111001  
:D = C  
00000000111001000001011110110000  
:C = B Left Rotate 30  
10011000110100011101010111100011  
:B = A  
10010000000100100101110001101011

:A = Temp

---

Word 41

10011000110100011101010111100011  
:B  
00000000111001000001011110110000  
:C

---

B AND C  
00000000110000000001010110100000  
:Out

10011000110100011101010111100011  
:B  
00101101101011011100011000111001  
:D

---

B AND D  
00001000100000011100010000100001  
:Out

00000000111001000001011110110000  
:C  
00101101101011011100011000111001  
:D

---

C AND D  
00000000101001000000011000110000  
:Out

00000000110000000001010110100000  
:B AND C  
00001000100000011100010000100001  
:B AND D

---

(B AND C) OR (B AND D)  
00001000110000011101010110100001  
:Out

00001000110000011101010110100001

:(B AND C) OR (B AND D)  
00000000101001000000011000110000  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
00001000111001011101011110110001  
:F

10001111000110111011110011011100  
:K  
00000010010010111000110101110010  
:A lrot 5  
00001000111001011101011110110001  
:F

---

:(A lrot 5) + F  
100001011001100010110010100100011  
:Out

100001011001100010110010100100011  
:(A lrot 5) + F  
00100111010111101011100111011011  
:E

---

:(A lrot 5) + F + E  
1100110010100100000001111011111110  
:Out

1100110010100100000001111011111110  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
11111000001101010111101101111011010  
:Out

11111000001101010111101101111011010  
:(A lrot 5) + F + E + K  
10011000001110001010111011001111  
:Word 41

---

:(A lrot 5) + F + E + K + Word 41  
100001011001111001001000101010101001  
:temp

01011001111001001000101010101001  
:truncated temp  
00101101101011011100011000111001  
:E = D  
00000000111001000001011110110000  
:D = C  
11100110001101000111010101111000  
:C = B Left Rotate 30  
10010000000100100101110001101011  
:B = A  
01011001111001001000101010101001  
:A = Temp

---

Word 42

10010000000100100101110001101011  
:B  
11100110001101000111010101111000  
:C

---

B AND C  
10000000000100000101010001101000  
:Out

10010000000100100101110001101011  
:B  
00000000111001000001011110110000  
:D

---

B AND D  
00000000000000000001010000100000  
:Out

11100110001101000111010101111000  
:C  
00000000111001000001011110110000  
:D

---

C AND D  
00000000001001000001010100110000  
:Out

10000000000100000101010001101000  
:B AND C  
00000000000000000001010000100000  
:B AND D

---

(B AND C) OR (B AND D)  
10000000000100000101010001101000  
:Out

10000000000100000101010001101000  
:(B AND C) OR (B AND D)  
00000000001001000001010100110000  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
10000000001101000101010101111000  
:F

10001111000110111011110011011100  
:K  
00111100100100010101010100101011  
:A lrot 5  
10000000001101000101010101111000  
:F

---

:(A lrot 5) + F  
110111100110001011010101010100011  
:Out

110111100110001011010101010100011  
:(A lrot 5) + F  
00101101101011011100011000111001  
:E

---

:(A lrot 5) + F + E  
1111101010011100110111000011011100  
:Out

111101010011100110111000011011100  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
10001111001100011110010110110111000  
:Out

10001111001100011110010110110111000  
:(A lrot 5) + F + E + K  
0111010101000011111111000111110  
:Word 42

---

:(A lrot 5) + F + E + K + Word 42  
11001110111011010011001010111110110  
:temp

11101110110100110010101111110110  
:truncated temp  
00000000111001000001011110110000  
:E = D  
11100110001101000111010101111000  
:D = C  
11100100000001001001011100011010  
:C = B Left Rotate 30  
01011001111001001000101010101001  
:B = A  
11101110110100110010101111110110  
:A = Temp

---

Word 43

01011001111001001000101010101001  
:B  
11100100000001001001011100011010  
:C

---

B AND C  
01000000000001001000001000001000

:Out

01011001111001001000101010101001

:B

11100110001101000111010101111000

:D

---

B AND D

01000000001001000000000000101000

:Out

11100100000001001001011100011010

:C

11100110001101000111010101111000

:D

---

C AND D

11100100000001000001010100011000

:Out

01000000000001001000001000001000

:B AND C

01000000001001000000000000101000

:B AND D

---

(B AND C) OR (B AND D)

01000000001001001000001000101000

:Out

01000000001001001000001000101000

:(B AND C) OR (B AND D)

11100100000001000001010100011000

:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)

11100100001001001001011100111000

:F

10001111000110111011110011011100

:K

11011010011001010111111011011101

:A lrot 5  
11100100001001001001011100111000  
:F

---

:(A lrot 5) + F  
110111110100010100001011000010101  
:Out

110111110100010100001011000010101  
:(A lrot 5) + F  
00000000111001000001011110110000  
:E

---

:(A lrot 5) + F + E  
1110111111011011100010110111000101  
:Out

1110111111011011100010110111000101  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
10001001110100010011110101010100001  
:Out

10001001110100010011110101010100001  
:(A lrot 5) + F + E + K  
01111100111110101001111001001001  
:Word 43

---

:(A lrot 5) + F + E + K + Word 43  
110011001011100001001000100011101010  
:temp

11001011100001001000100011101010  
:truncated temp  
11100110001101000111010101111000  
:E = D  
11100100000001001001011100011010  
:D = C  
01010110011110010010001010101010

:C = B Left Rotate 30  
11101110110100110010101111110110  
:B = A  
11001011100001001000100011101010  
:A = Temp

---

Word 44

11101110110100110010101111110110  
:B  
01010110011110010010001010101010  
:C

---

B AND C  
01000110010100010010001010100010  
:Out

11101110110100110010101111110110  
:B  
11100100000001001001011100011010  
:D

---

B AND D  
11100100000000000000000001100010010  
:Out

01010110011110010010001010101010  
:C  
11100100000001001001011100011010  
:D

---

C AND D  
01000100000000000000000001000001010  
:Out

01000110010100010010001010100010  
:B AND C  
11100100000000000000000001100010010  
:B AND D

---

(B AND C) OR (B AND D)

11100110010100010010001110110010  
:Out

11100110010100010010001110110010  
:(B AND C) OR (B AND D)  
0100010000000000000001000001010  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
1110011001010001001000111011010  
:F

10001111000110111011110011011100  
:K  
01110000100100010001110101011001  
:A lrot 5  
11100110010100010010001110111010  
:F

---

:(A lrot 5) + F  
101010110111000100100000100010011  
:Out

101010110111000100100000100010011  
:(A lrot 5) + F  
1110011000110100011101010111000  
:E

---

:(A lrot 5) + F + E  
1000111101000101101011011010001011  
:Out

1000111101000101101011011010001011  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
11011001100001100100111001101100111  
:Out

11011001100001100100111001101100111  
:(A lrot 5) + F + E + K  
00000000011100111110001001111000  
:Word 44

---

:(A lrot 5) + F + E + K + Word 44  
111011001100101001100101010111011111  
:temp

110011001010011001010101110111111  
:truncated temp  
11100100000001001001011100011010  
:E = D  
01010110011110010010001010101010  
:D = C  
1011101110110100110010101111101  
:C = B Left Rotate 30  
11001011100001001000100011101010  
:B = A  
110011001010011001010101110111111  
:A = Temp

---

Word 45

11001011100001001000100011101010  
:B  
1011101110110100110010101111101  
:C

---

B AND C  
10001011100001001000100011101000  
:Out

11001011100001001000100011101010  
:B  
01010110011110010010001010101010  
:D

---

B AND D  
01000010000000000000000010101010  
:Out

1011101110110100110010101111101

:C

01010110011110010010001010101010

:D

---

C AND D

00010010001100000000001010101000

:Out

10001011100001001000100011101000

:B AND C

01000010000000000000000010101010

:B AND D

---

(B AND C) OR (B AND D)

11001011100001001000100011101010

:Out

11001011100001001000100011101010

:(B AND C) OR (B AND D)

00010010001100000000001010101000

:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)

11011011101101001000101011101010

:F

10001111000110111011110011011100

:K

1001010011001010101110111111001

:A lrot 5

11011011101101001000101011101010

:F

---

:(A lrot 5) + F

10111000001111110100011011100011

:Out

10111000001111110100011011100011

:(A lrot 5) + F

11100100000001001001011100011010

:E

---

:(A lrot 5) + F + E

100101010010000011110111011111101

:Out

100101010010000011110111011111101

:(A lrot 5) + F + E

10001111000110111011110011011100

:K

---

:(A lrot 5) + F + E + K

1101110001110011111001101011011001

:Out

1101110001110011111001101011011001

:(A lrot 5) + F + E + K

01001110101100010011100001110101

:Word 45

---

:(A lrot 5) + F + E + K + Word 45

111100110010010100001101001101001110

:temp

00110010010100001101001101001110

:truncated temp

01010110011110010010001010101010

:E = D

1011101110110100110010101111101

:D = C

10110010111000010010001000111010

:C = B Left Rotate 30

11001100101001100101010111011111

:B = A

00110010010100001101001101001110

:A = Temp

---

Word 46

11001100101001100101010111011111

:B  
10110010111000010010001000111010  
:C

---

B AND C  
1000000010100000000000000011010  
:Out

11001100101001100101010111011111  
:B  
1011101110110100110010101111101  
:D

---

B AND D  
10001000101001000100000011011101  
:Out

10110010111000010010001000111010  
:C  
1011101110110100110010101111101  
:D

---

C AND D  
10110010101000000000001000111000  
:Out

1000000010100000000000000011010  
:B AND C  
10001000101001000100000011011101  
:B AND D

---

(B AND C) OR (B AND D)  
10001000101001000100000011011111  
:Out

10001000101001000100000011011111  
:(B AND C) OR (B AND D)  
10110010101000000000001000111000  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
10111010101001000100001011111111

:F

10001111000110111011110011011100

:K

01001010000110100110100111000110

:A lrot 5

10111010101001000100001011111111

:F

---

:(A lrot 5) + F

100000100101111101010110011000101

:Out

100000100101111101010110011000101

:(A lrot 5) + F

01010110011110010010001010101010

:E

---

:(A lrot 5) + F + E

1101011011001101111100111101101111

:Out

1101011011001101111100111101101111

:(A lrot 5) + F + E

10001111000110111011110011011100

:K

---

:(A lrot 5) + F + E + K

11111101010010100111000110001001011

:Out

11111101010010100111000110001001011

:(A lrot 5) + F + E + K

11011111000001000000100110100001

:Word 46

---

:(A lrot 5) + F + E + K + Word 46

100011001001010101111001010111101100

:temp

11001001010101111001010111101100

:truncated temp  
10111011101101001100101011111101  
:E = D  
10110010111000010010001000111010  
:D = C  
11110011001010011001010101110111  
:C = B Left Rotate 30  
00110010010100001101001101001110  
:B = A  
11001001010101111001010111101100  
:A = Temp

---

Word 47

00110010010100001101001101001110  
:B  
11110011001010011001010101110111  
:C

---

B AND C  
00110010000000001001000101000110  
:Out

00110010010100001101001101001110  
:B  
10110010111000010010001000111010  
:D

---

B AND D  
0011001001000000000001000001010  
:Out

11110011001010011001010101110111  
:C  
10110010111000010010001000111010  
:D

---

C AND D  
10110010001000010000000000110010  
:Out

00110010000000001001000101000110  
:B AND C  
00110010010000000000001000001010  
:B AND D

---

(B AND C) OR (B AND D)  
00110010010000001001001101001110  
:Out

00110010010000001001001101001110  
:(B AND C) OR (B AND D)  
10110010001000010000000000110010  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
10110010011000011001001101111110  
:F

10001111000110111011110011011100  
:K  
00101010111100101011110110011001  
:A lrot 5  
10110010011000011001001101111110  
:F

---

:(A lrot 5) + F  
111011101010101000101000100010111  
:Out

111011101010101000101000100010111  
:(A lrot 5) + F  
10111011101101001100101011111101  
:E

---

:(A lrot 5) + F + E  
1010011001000010010001110000010100  
:Out

1010011001000010010001110000010100  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
11100101000001001001101100011110000  
:Out

11100101000001001001101100011110000  
:(A lrot 5) + F + E + K  
0001111111111010000110111011000  
:Word 47

---

:(A lrot 5) + F + E + K + Word 47  
111101001000001000011110011011001000  
:temp

01001000001000011110011011001000  
:truncated temp  
10110010111000010010001000111010  
:E = D  
11110011001010011001010101110111  
:D = C  
10001100100101000011010011010011  
:C = B Left Rotate 30  
11001001010101111001010111101100  
:B = A  
01001000001000011110011011001000  
:A = Temp

---

Word 48

11001001010101111001010111101100  
:B  
10001100100101000011010011010011  
:C

---

B AND C  
10001000000101000001010011000000  
:Out

11001001010101111001010111101100  
:B  
11110011001010011001010101110111

:D

---

B AND D

11000001000000011001010101100100

:Out

10001100100101000011010011010011

:C

11110011001010011001010101110111

:D

---

C AND D

10000000000000000001010001010011

:Out

10001000000101000001010011000000

:B AND C

11000001000000011001010101100100

:B AND D

---

(B AND C) OR (B AND D)

11001001000101011001010111100100

:Out

11001001000101011001010111100100

:(B AND C) OR (B AND D)

10000000000000000001010001010011

:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)

11001001000101011001010111110111

:F

10001111000110111011110011011100

:K

00000100001111001101100100001001

:A lrot 5

11001001000101011001010111110111

:F

---

:(A lrot 5) + F

11100110101010010011011110000000

:Out

11100110101010010011011110000000

:(A lrot 5) + F

10110010111000010010001000111010

:E

---

:(A lrot 5) + F + E

1010000000001100111001000100111010

:Out

1010000000001100111001000100111010

:(A lrot 5) + F + E

10001111000110111011110011011100

:K

---

:(A lrot 5) + F + E + K

11100001111010011110100111000010110

:Out

11100001111010011110100111000010110

:(A lrot 5) + F + E + K

1100011111100011101110100010011

:Word 48

---

:(A lrot 5) + F + E + K + Word 48

11111010111010000010010101100101001

:temp

11010111010000010010101100101001

:truncated temp

11110011001010011001010101110111

:E = D

10001100100101000011010011010011

:D = C

00110010010101011110010101111011

:C = B Left Rotate 30

01001000001000011110011011001000

:B = A

11010111010000010010101100101001

:A = Temp

---

Word 49

01001000001000011110011011001000

:B

00110010010101011110010101111011

:C

---

B AND C

00000000000000011110010001001000

:Out

01001000001000011110011011001000

:B

10001100100101000011010011010011

:D

---

B AND D

0000100000000000010010011000000

:Out

00110010010101011110010101111011

:C

10001100100101000011010011010011

:D

---

C AND D

0000000000101000010010001010011

:Out

00000000000000011110010001001000

:B AND C

0000100000000000010010011000000

:B AND D

---

(B AND C) OR (B AND D)

00001000000000011110010011001000

:Out

00001000000000011110010011001000

:(B AND C) OR (B AND D)

0000000000101000010010001010011

:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)

00001000000101011110010011011011

:F

10001111000110111011110011011100

:K

11101000001001010110010100111010

:A lrot 5

00001000000101011110010011011011

:F

---

:(A lrot 5) + F

111110000001110110100101000010101

:Out

111110000001110110100101000010101

:(A lrot 5) + F

11110011001010011001010101110111

:E

---

:(A lrot 5) + F + E

101110001101100100110111110001100

:Out

101110001101100100110111110001100

:(A lrot 5) + F + E

10001111000110111011110011011100

:K

---

:(A lrot 5) + F + E + K

11101110010100000001001110001101000

:Out

11101110010100000001001110001101000

:(A lrot 5) + F + E + K

11111100111001010100001100011100

:Word 49

---

:(A lrot 5) + F + E + K + Word 49

10000110111101100101110111110000100

:temp

0110111101100101110111110000100

:truncated temp

10001100100101000011010011010011

:E = D

00110010010101011110010101111011

:D = C

00010010000010000111100110110010

:C = B Left Rotate 30

11010111010000010010101100101001

:B = A

0110111101100101110111110000100

:A = Temp

---

Word 50

11010111010000010010101100101001

:B

00010010000010000111100110110010

:C

---

B AND C

00010010000000000010100100100000

:Out

11010111010000010010101100101001

:B

00110010010101011110010101111011

:D

---

B AND D

00010010010000010010000100101001

:Out

00010010000010000111100110110010

:C

00110010010101011110010101111011

:D

---

C AND D

00010010000000000110000100110010  
:Out

00010010000000000010100100100000  
:B AND C  
00010010010000010010000100101001  
:B AND D

---

(B AND C) OR (B AND D)  
00010010010000010010100100101001  
:Out

00010010010000010010100100101001  
:(B AND C) OR (B AND D)  
00010010000000000110000100110010  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
00010010010000010110100100111011  
:F

10001111000110111011110011011100  
:K  
1110110010111011111000010001101  
:A lrot 5  
00010010010000010110100100111011  
:F

---

:(A lrot 5) + F  
1111111011111010101100111001000  
:Out

1111111011111010101100111001000  
:(A lrot 5) + F  
10001100100101000011010011010011  
:E

---

:(A lrot 5) + F + E  
1010001011100100011000111010011011  
:Out

1010001011100100011000111010011011  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
11100011010101011010100101101110111  
:Out

11100011010101011010100101101110111  
:(A lrot 5) + F + E + K  
01110111001001110111111001111001  
:Word 50

---

:(A lrot 5) + F + E + K + Word 50  
11110010001110101001100100111110000  
:temp

10010001110101001100100111110000  
:truncated temp  
00110010010101011110010101111011  
:E = D  
00010010000010000111100110110010  
:D = C  
01110101110100000100101011001010  
:C = B Left Rotate 30  
0110111101100101110111110000100  
:B = A  
10010001110101001100100111110000  
:A = Temp

---

Word 51

0110111101100101110111110000100  
:B  
01110101110100000100101011001010  
:C

---

B AND C  
01100101010000000100101010000000  
:Out

01101111011001011101111110000100  
:B  
00010010000010000111100110110010  
:D

---

B AND D  
00000010000000000101100110000000  
:Out

01110101110100000100101011001010  
:C  
00010010000010000111100110110010  
:D

---

C AND D  
00010000000000000100100010000010  
:Out

01100101010000000100101010000000  
:B AND C  
00000010000000000101100110000000  
:B AND D

---

(B AND C) OR (B AND D)  
01100111010000000101101110000000  
:Out

01100111010000000101101110000000  
:(B AND C) OR (B AND D)  
00010000000000000100100010000010  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
01110111010000000101101110000010  
:F

10001111000110111011110011011100  
:K  
00111010100110010011111000010010  
:A lrot 5

01110111010000000101101110000010  
:F

---

:(A lrot 5) + F  
110110001110110011001100110010100  
:Out

110110001110110011001100110010100  
:(A lrot 5) + F  
00110010010101011110010101111011  
:E

---

:(A lrot 5) + F + E  
111110010000101111011111100001111  
:Out

111110010000101111011111100001111  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
10001110011010010110011101111101011  
:Out

10001110011010010110011101111101011  
:(A lrot 5) + F + E + K  
11001001010000111000011110100101  
:Word 51

---

:(A lrot 5) + F + E + K + Word 51  
110100111100100011101100001110010000  
:temp

00111100100011101100001110010000  
:truncated temp  
00010010000010000111100110110010  
:E = D  
01110101110100000100101011001010  
:D = C  
0001101111011001011101111100001  
:C = B Left Rotate 30

10010001110101001100100111110000  
:B = A  
00111100100011101100001110010000  
:A = Temp

---

Word 52

10010001110101001100100111110000  
:B  
0001101111011001011101111100001  
:C

---

B AND C  
00010001110100000100000111100000  
:Out

10010001110101001100100111110000  
:B  
01110101110100000100101011001010  
:D

---

B AND D  
00010001110100000100100011000000  
:Out

0001101111011001011101111100001  
:C  
01110101110100000100101011001010  
:D

---

C AND D  
00010001110100000100001011000000  
:Out

00010001110100000100000111100000  
:B AND C  
00010001110100000100100011000000  
:B AND D

---

(B AND C) OR (B AND D)  
00010001110100000100100111100000

:Out

00010001110100000100100111100000

:(B AND C) OR (B AND D)

00010001110100000100001011000000

:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)

00010001110100000100101111100000

:F

10001111000110111011110011011100

:K

10010001110110000111001000000111

:A lrot 5

00010001110100000100101111100000

:F

---

:(A lrot 5) + F

110100011101010001011110111100111

:Out

110100011101010001011110111100111

:(A lrot 5) + F

00010010000010000111100110110010

:E

---

:(A lrot 5) + F + E

1110110101101100010011011110011001

:Out

1110110101101100010011011110011001

:(A lrot 5) + F + E

10001111000110111011110011011100

:K

---

:(A lrot 5) + F + E + K

10001000100110011001111010001110101

:Out

10001000100110011001111010001110101

:(A lrot 5) + F + E + K  
01001101010101101110011100000011  
:Word 52

---

:(A lrot 5) + F + E + K + Word 52  
110010010010001000111101101101111000  
:temp

10010010001000111101101101111000  
:truncated temp  
01110101110100000100101011001010  
:E = D  
0001101111011001011101111100001  
:D = C  
00100100011101010011001001111100  
:C = B Left Rotate 30  
00111100100011101100001110010000  
:B = A  
10010010001000111101101101111000  
:A = Temp

---

Word 53

00111100100011101100001110010000  
:B  
00100100011101010011001001111100  
:C

---

B AND C  
00100100000001000000001000010000  
:Out

00111100100011101100001110010000  
:B  
0001101111011001011101111100001  
:D

---

B AND D  
00011000100010000100001110000000  
:Out

00100100011101010011001001111100  
:C  
0001101111011001011101111100001  
:D

---

C AND D  
00000000010100010011001001100000  
:Out

00100100000001000000001000010000  
:B AND C  
00011000100010000100001110000000  
:B AND D

---

(B AND C) OR (B AND D)  
00111100100011000100001110010000  
:Out

00111100100011000100001110010000  
:(B AND C) OR (B AND D)  
00000000010100010011001001100000  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
00111100110111010111001111110000  
:F

10001111000110111011110011011100  
:K  
01000100011110110110111100010010  
:A lrot 5  
00111100110111010111001111110000  
:F

---

:(A lrot 5) + F  
110000001010110001110001100000010  
:Out

110000001010110001110001100000010  
:(A lrot 5) + F  
01110101110100000100101011001010  
:E

---

:(A lrot 5) + F + E  
111110111001010010010110111001100  
:Out

111110111001010010010110111001100  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
10010000110010001001110101010101000  
:Out

10010000110010001001110101010101000  
:(A lrot 5) + F + E + K  
10001110011000000001101000011000  
:Word 53

---

:(A lrot 5) + F + E + K + Word 53  
110100010100101001010000010011000000  
:temp

00010100101001010000010011000000  
:truncated temp  
0001101111011001011101111100001  
:E = D  
00100100011101010011001001111100  
:D = C  
00001111001000111011000011100100  
:C = B Left Rotate 30  
10010010001000111101101101111000  
:B = A  
00010100101001010000010011000000  
:A = Temp

---

Word 54

10010010001000111101101101111000  
:B  
00001111001000111011000011100100

:C

---

B AND C

00000010001000111001000001100000

:Out

10010010001000111101101101111000

:B

00100100011101010011001001111100

:D

---

B AND D

00000000001000010001001001111000

:Out

00001111001000111011000011100100

:C

00100100011101010011001001111100

:D

---

C AND D

00000100001000010011000001100100

:Out

00000010001000111001000001100000

:B AND C

00000000001000010001001001111000

:B AND D

---

(B AND C) OR (B AND D)

00000010001000111001001001111000

:Out

00000010001000111001001001111000

:(B AND C) OR (B AND D)

00000100001000010011000001100100

:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)

00000110001000111011001001111100

:F

10001111000110111011110011011100  
:K  
10010100101000001001100000000010  
:A lrot 5  
00000110001000111011001001111100  
:F

---

:(A lrot 5) + F  
110011010110001000100101001111110  
:Out

110011010110001000100101001111110  
:(A lrot 5) + F  
00011011110110010111011111100001  
:E

---

:(A lrot 5) + F + E  
1110110110100111011100001001011111  
:Out

1110110110100111011100001001011111  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
10001000101101110010111111100111011  
:Out

10001000101101110010111111100111011  
:(A lrot 5) + F + E + K  
01000010001100011110000011001000  
:Word 54

---

:(A lrot 5) + F + E + K + Word 54  
11001000011111101011011000000000011  
:temp

10000111111010110110000000000011  
:truncated temp

00100100011101010011001001111100  
:E = D  
00001111001000111011000011100100  
:D = C  
00100100100010001111011011011110  
:C = B Left Rotate 30  
00010100101001010000010011000000  
:B = A  
100001111101011011000000000011  
:A = Temp

---

Word 55

00010100101001010000010011000000  
:B  
00100100100010001111011011011110  
:C

---

B AND C  
00000100100000000000010011000000  
:Out

00010100101001010000010011000000  
:B  
00001111001000111011000011100100  
:D

---

B AND D  
00000100001000010000000011000000  
:Out

00100100100010001111011011011110  
:C  
00001111001000111011000011100100  
:D

---

C AND D  
00000100000000001011000011000100  
:Out

00000100100000000000010011000000

:B AND C  
00000100001000010000000011000000  
:B AND D

---

(B AND C) OR (B AND D)  
00000100101000010000010011000000  
:Out

00000100101000010000010011000000  
:(B AND C) OR (B AND D)  
00000100000000001011000011000100  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
00000100101000011011010011000100  
:F

10001111000110111011110011011100  
:K  
11111101011011000000000001110000  
:A lrot 5  
00000100101000011011010011000100  
:F

---

:(A lrot 5) + F  
100000010000011011011010100110100  
:Out

100000010000011011011010100110100  
:(A lrot 5) + F  
00100100011101010011001001111100  
:E

---

:(A lrot 5) + F + E  
1100100110100000101110011110110000  
:Out

1100100110100000101110011110110000  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
11110110101100111101010010010001100  
:Out

11110110101100111101010010010001100  
:(A lrot 5) + F + E + K  
11111000000110100101001011100101  
:Word 55

---

:(A lrot 5) + F + E + K + Word 55  
10001010110110110001111011101110001  
:temp

10101101101110001111011101110001  
:truncated temp  
00001111001000111011000011100100  
:E = D  
00100100100010001111011011011110  
:D = C  
00000101001010010100000100110000  
:C = B Left Rotate 30  
10000111111010110110000000000011  
:B = A  
10101101101110001111011101110001  
:A = Temp

---

Word 56

10000111111010110110000000000011  
:B  
00000101001010010100000100110000  
:C

---

B AND C  
00000101001010010100000000000000  
:Out

10000111111010110110000000000011  
:B  
00100100100010001111011011011110  
:D

---

B AND D  
00000100100010000110000000000010  
:Out

00000101001010010100000100110000  
:C  
00100100100010001111011011011110  
:D

---

C AND D  
00000100000010000100000000010000  
:Out

00000101001010010100000000000000  
:B AND C  
00000100100010000110000000000010  
:B AND D

---

(B AND C) OR (B AND D)  
00000101101010010110000000000010  
:Out

00000101101010010110000000000010  
:(B AND C) OR (B AND D)  
00000100000010000100000000010000  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
00000101101010010110000000010010  
:F

10001111000110111011110011011100  
:K  
10110111000111101110111000110101  
:A lrot 5  
00000101101010010110000000010010  
:F

---

:(A lrot 5) + F  
110111100110010000100111001000111  
:Out

110111100110010000100111001000111  
:(A lrot 5) + F  
00001111001000111011000011100100  
:E

---

:(A lrot 5) + F + E  
111100101111101011111111100101011  
:Out

111100101111101011111111100101011  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
10001011011000001111011110000000111  
:Out

10001011011000001111011110000000111  
:(A lrot 5) + F + E + K  
00011111101011110111100111101010  
:Word 56

---

:(A lrot 5) + F + E + K + Word 56  
110001111010101101110011010111110001  
:temp

01111010101101110011010111110001  
:truncated temp  
00100100100010001111011011011110  
:E = D  
00000101001010010100000100110000  
:D = C  
11100001111110101101100000000000  
:C = B Left Rotate 30  
10101101101110001111011101110001  
:B = A  
01111010101101110011010111110001  
:A = Temp

---

Word 57

10101101101110001111011101110001

:B

11100001111110101101100000000000

:C

---

B AND C

10100001101110001101000000000000

:Out

10101101101110001111011101110001

:B

00000101001010010100000100110000

:D

---

B AND D

00000101001010000100000100110000

:Out

11100001111110101101100000000000

:C

00000101001010010100000100110000

:D

---

C AND D

00000001001010000100000000000000

:Out

10100001101110001101000000000000

:B AND C

00000101001010000100000100110000

:B AND D

---

(B AND C) OR (B AND D)

10100101101110001101000100110000

:Out

10100101101110001101000100110000

:(B AND C) OR (B AND D)

00000001001010000100000000000000

:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)

10100101101110001101000100110000

:F

10001111000110111011110011011100

:K

01010110111001101011111000101111

:A lrot 5

10100101101110001101000100110000

:F

---

:(A lrot 5) + F

11111100100111111000111101011111

:Out

11111100100111111000111101011111

:(A lrot 5) + F

00100100100010001111011011011110

:E

---

:(A lrot 5) + F + E

1000100001001010001000011000111101

:Out

1000100001001010001000011000111101

:(A lrot 5) + F + E

10001111000110111011110011011100

:K

---

:(A lrot 5) + F + E + K

11010110000010001000100001100011001

:Out

11010110000010001000100001100011001

:(A lrot 5) + F + E + K

10110100001011010010011010100100

:Word 57

---

:(A lrot 5) + F + E + K + Word 57

111101100100011100010110100110111101

:temp

```
01100100011100010110100110111101
:truncated temp
00000101001010010100000100110000
:E = D
11100001111101011011000000000000
:D = C
01101011011011100011110111011100
:C = B Left Rotate 30
01111010101101110011010111110001
:B = A
01100100011100010110100110111101
:A = Temp
```

---

Word 58

```
01111010101101110011010111110001
:B
01101011011011100011110111011100
:C
```

---

B AND C

```
01101010001001100011010111010000
:Out
```

```
01111010101101110011010111110001
:B
11100001111101011011000000000000
:D
```

---

B AND D

```
01100000101100100001000000000000
:Out
```

```
01101011011011100011110111011100
:C
11100001111101011011000000000000
:D
```

---

C AND D

```
01100001011010100001100000000000
```

:Out

01101010001001100011010111010000  
:B AND C  
01100000101100100001000000000000  
:B AND D

---

(B AND C) OR (B AND D)  
01101010101101100011010111010000  
:Out

01101010101101100011010111010000  
:(B AND C) OR (B AND D)  
01100001011010100001100000000000  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
011010111111100011110111010000  
:F

10001111000110111011110011011100  
:K  
10001110001011010011011110101100  
:A lrot 5  
0110101111111100011110111010000  
:F

---

:(A lrot 5) + F  
111111010001010110111010101111100  
:Out

111111010001010110111010101111100  
:(A lrot 5) + F  
00000101001010010100000100110000  
:E

---

:(A lrot 5) + F + E  
111111111010101001011011010101100  
:Out

111111111010101001011011010101100

:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
10010001110011100000111001110001000  
:Out

10010001110011100000111001110001000  
:(A lrot 5) + F + E + K  
11110100000110100110000110110101  
:Word 58

---

:(A lrot 5) + F + E + K + Word 58  
110110000010100010101101010100111101  
:temp

10000010100010101101010100111101  
:truncated temp  
1110000111110101101100000000000  
:E = D  
0110101101101110001111011011100  
:D = C  
0101111010101101110011010111100  
:C = B Left Rotate 30  
01100100011100010110100110111101  
:B = A  
10000010100010101101010100111101  
:A = Temp

---

Word 59

01100100011100010110100110111101  
:B  
0101111010101101110011010111100  
:C

---

B AND C  
01000100001000010100100100111100  
:Out

01100100011100010110100110111101  
:B  
0110101101101110001111011011100  
:D

---

B AND D  
01100000011000000010100110011100  
:Out

01011110101011011100110101111100  
:C  
0110101101101110001111011011100  
:D

---

C AND D  
01001010001011000000110101011100  
:Out

01000100001000010100100100111100  
:B AND C  
01100000011000000010100110011100  
:B AND D

---

(B AND C) OR (B AND D)  
01100100011000010110100110111100  
:Out

01100100011000010110100110111100  
:(B AND C) OR (B AND D)  
01001010001011000000110101011100  
:C AND D

---

((B AND C) OR (B AND D)) OR (C AND D)  
0110111001101101011011011111100  
:F

10001111000110111011110011011100  
:K  
01010001010110101010011110110000  
:A lrot 5  
0110111001101101011011011111100  
:F

---

:(A lrot 5) + F  
110111111110010000001010110101100  
:Out

110111111110010000001010110101100  
:(A lrot 5) + F  
1110000111110101101100000000000  
:E

---

:(A lrot 5) + F + E  
1010100001110000101110110110101100  
:Out

1010100001110000101110110110101100  
:(A lrot 5) + F + E  
10001111000110111011110011011100  
:K

---

:(A lrot 5) + F + E + K  
11100110000110111101010101010001000  
:Out

11100110000110111101010101010001000  
:(A lrot 5) + F + E + K  
11001001010011101011000011100111  
:Word 59

---

:(A lrot 5) + F + E + K + Word 59  
11111111010001011010101101101101111  
:temp

1111010001011010101101101101111  
:truncated temp  
0110101101101110001111011011100  
:E = D  
0101110101011011100110101111100  
:D = C  
01011001000111000101101001101111  
:C = B Left Rotate 30  
1000010100010101101010100111101  
:B = A

111101000101101010110110110111  
:A = Temp

---

Word 60

10000010100010101101010100111101  
:B  
01011001000111000101101001101111  
:C

---

B XOR C  
11011011100101101000111101010010  
:Out

11011011100101101000111101010010  
:B XOR C  
0101110101011011100110101111100  
:D

---

(B XOR C) XOR D  
10000101001110110100001000101110  
:F

11001010011000101100000111010110  
:K  
01000101101010110110110111111111  
:A lrot 5  
10000101001110110100001000101110  
:F

---

:(A lrot 5) + F  
111001010111001101011000000101101  
:Out

111001010111001101011000000101101  
:(A lrot 5) + F  
0110101101101110001111011011100  
:E

---

:(A lrot 5) + F + E  
1000110110010101001110111000001001

:Out

1000110110010101001110111000001001

:(A lrot 5) + F + E

11001010011000101100000111010110

:K

---

:(A lrot 5) + F + E + K

1110000000010110111101011111011111

:Out

1110000000010110111101011111011111

:(A lrot 5) + F + E + K

01001100000110000101010011111100

:Word 60

---

:(A lrot 5) + F + E + K + Word 60

111101001100110100000000010011011011

:temp

01001100110100000000010011011011

:truncated temp

01011110101011011100110101111100

:E = D

01011001000111000101101001101111

:D = C

01100000101000101011010101001111

:C = B Left Rotate 30

11111010001011010101101101101111

:B = A

01001100110100000000010011011011

:A = Temp

---

Word 61

11111010001011010101101101101111

:B

01100000101000101011010101001111

:C

---

B XOR C

1001101010001111110111000100000  
:Out

1001101010001111110111000100000  
:B XOR C  
01011001000111000101101001101111  
:D

---

(B XOR C) XOR D  
11000011100100111011010001001111  
:F

11001010011000101100000111010110  
:K  
10011010000000001001101101101001  
:A lrot 5  
11000011100100111011010001001111  
:F

---

(A lrot 5) + F  
101011101100101000100111110111000  
:Out

101011101100101000100111110111000  
:(A lrot 5) + F  
01011110101011011100110101111100  
:E

---

(A lrot 5) + F + E  
1110111100010000100001110100110100  
:Out

1110111100010000100001110100110100  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

(A lrot 5) + F + E + K  
10010000110101001001101111100001010  
:Out

10010000110101001001101111100001010  
:(A lrot 5) + F + E + K  
01010110011011001001110000000000  
:Word 61

---

:(A lrot 5) + F + E + K + Word 61  
110011011101000100010111101100001010  
:temp

11011101000100010111101100001010  
:truncated temp  
01011001000111000101101001101111  
:E = D  
01100000101000101011010101001111  
:D = C  
1111110100010110101011011011011  
:C = B Left Rotate 30  
0100110011010000000010011011011  
:B = A  
11011101000100010111101100001010  
:A = Temp

---

Word 62

0100110011010000000010011011011  
:B  
1111110100010110101011011011011  
:C

---

B XOR C  
10110010010110110101001000000000  
:Out

10110010010110110101001000000000  
:B XOR C  
01100000101000101011010101001111  
:D

---

(B XOR C) XOR D  
11010010111110011110011101001111  
:F

11001010011000101100000111010110  
:K  
10100010001011110110000101011011  
:A lrot 5  
11010010111110011110011101001111  
:F

---

:(A lrot 5) + F  
101110101001010010100100010101010  
:Out

101110101001010010100100010101010  
:(A lrot 5) + F  
01011001000111000101101001101111  
:E

---

:(A lrot 5) + F + E  
1111001110010001011010001100011001  
:Out

1111001110010001011010001100011001  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
10010011000101010000110010011101111  
:Out

10010011000101010000110010011101111  
:(A lrot 5) + F + E + K  
00100111000101010000100100111011  
:Word 62

---

:(A lrot 5) + F + E + K + Word 62  
11001011111101111010110111000101010  
:temp

1011111101111010110111000101010  
:truncated temp

```
01100000101000101011010101001111
:E = D
1111110100010110101011011011011
:D = C
11010011001101000000000100110110
:C = B Left Rotate 30
11011101000100010111101100001010
:B = A
1011111101111010110111000101010
:A = Temp
```

---

Word 63

```
11011101000100010111101100001010
:B
11010011001101000000000100110110
:C
```

---

```
B XOR C
00001110001001010111101000111100
:Out
```

```
00001110001001010111101000111100
:B XOR C
1111110100010110101011011011011
:D
```

---

```
(B XOR C) XOR D
11110000101011100010110011100111
:F
```

```
11001010011000101100000111010110
:K
11110111101011011100010101010111
:A lrot 5
11110000101011100010110011100111
:F
```

---

```
:(A lrot 5) + F
11110100001011011111001000111110
:Out
```

111101000010110111111001000111110  
:(A lrot 5) + F  
01100000101000101011010101001111  
:E

---

:(A lrot 5) + F + E  
1001001000111111101010011110001101  
:Out

1001001000111111101010011110001101  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
11100010011011000010110100101100011  
:Out

11100010011011000010110100101100011  
:(A lrot 5) + F + E + K  
10101110001101001001000110111010  
:Word 63

---

:(A lrot 5) + F + E + K + Word 63  
11111000001100101011111101100011101  
:temp

11000001100101011111101100011101  
:truncated temp  
11111110100010110101011011011011  
:E = D  
11010011001101000000000100110110  
:D = C  
10110111010001000101111011000010  
:C = B Left Rotate 30  
1011111101111010110111000101010  
:B = A  
11000001100101011111101100011101  
:A = Temp

---

Word 64

1011111101111010110111000101010

:B

10110111010001000101111011000010

:C

---

B XOR C

00001000111110010011000011101000

:Out

00001000111110010011000011101000

:B XOR C

11010011001101000000000100110110

:D

---

(B XOR C) XOR D

11011011110011010011000111011110

:F

11001010011000101100000111010110

:K

00110010101111110110001110111000

:A lrot 5

11011011110011010011000111011110

:F

---

:(A lrot 5) + F

100001110100011001001010110010110

:Out

100001110100011001001010110010110

:(A lrot 5) + F

1111110100010110101011011011011

:E

---

:(A lrot 5) + F + E

1000001101000101111110110001110001

:Out

1000001101000101111110110001110001

:(A lrot 5) + F + E

11001010011000101100000111010110

:K

---

:(A lrot 5) + F + E + K

11011010111011110101010111001000111

:Out

11011010111011110101010111001000111

:(A lrot 5) + F + E + K

11110010001010101000110100000001

:Word 64

---

:(A lrot 5) + F + E + K + Word 64

111111001001101001010011101101001000

:temp

11001001101001010011101101001000

:truncated temp

11010011001101000000000100110110

:E = D

10110111010001000101111011000010

:D = C

1010111111011110101101110001010

:C = B Left Rotate 30

11000001100101011111101100011101

:B = A

11001001101001010011101101001000

:A = Temp

---

Word 65

11000001100101011111101100011101

:B

1010111111011110101101110001010

:C

---

B XOR C

01101110011110101010000010010111

:Out

01101110011110101010000010010111

:B XOR C  
10110111010001000101111011000010  
:D

---

(B XOR C) XOR D  
1101100100111110111111001010101  
:F

11001010011000101100000111010110  
:K  
00110100101001110110100100011001  
:A lrot 5  
1101100100111110111111001010101  
:F

---

:(A lrot 5) + F  
100001101111001100110011101101110  
:Out

100001101111001100110011101101110  
:(A lrot 5) + F  
11010011001101000000000100110110  
:E

---

:(A lrot 5) + F + E  
1111100001000110100110100010100100  
:Out

1111100001000110100110100010100100  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
10010101011011111010010101001111010  
:Out

10010101011011111010010101001111010  
:(A lrot 5) + F + E + K  
01001101001111011101011001001101  
:Word 65

---

:(A lrot 5) + F + E + K + Word 65  
110011111000101110110000000011000111  
:temp

11111000101110110000000011000111  
:truncated temp  
10110111010001000101111011000010  
:E = D  
1010111111011110101101110001010  
:D = C  
01110000011001010111111011000111  
:C = B Left Rotate 30  
11001001101001010011101101001000  
:B = A  
11111000101110110000000011000111  
:A = Temp

---

Word 66

11001001101001010011101101001000  
:B  
01110000011001010111111011000111  
:C

---

B XOR C  
10111001110000000100010110001111  
:Out

10111001110000000100010110001111  
:B XOR C  
1010111111011110101101110001010  
:D

---

(B XOR C) XOR D  
00010110001011110001111000000101  
:F

11001010011000101100000111010110  
:K  
00010111011000000001100011111111  
:A lrot 5

00010110001011110001111000000101

:F

---

:(A lrot 5) + F

100101101100011110011011100000100

:Out

100101101100011110011011100000100

:(A lrot 5) + F

10110111010001000101111011000010

:E

---

:(A lrot 5) + F + E

1111100100110100111001010111000110

:Out

1111100100110100111001010111000110

:(A lrot 5) + F + E

11001010011000101100000111010110

:K

---

:(A lrot 5) + F + E + K

10010101111001101100101011110011100

:Out

10010101111001101100101011110011100

:(A lrot 5) + F + E + K

11000000101111101101001011101010

:Word 66

---

:(A lrot 5) + F + E + K + Word 66

11010110111111101010010101010000110

:temp

0110111111101010010101010000110

:truncated temp

1010111111011110101101110001010

:E = D

01110000011001010111111011000111

:D = C

00110010011010010100111011010010

:C = B Left Rotate 30

11111000101110110000000011000111  
:B = A  
01101111111101010010101010000110  
:A = Temp

---

Word 67

11111000101110110000000011000111  
:B  
00110010011010010100111011010010  
:C

---

B XOR C  
11001010110100100100111000010101  
:Out

11001010110100100100111000010101  
:B XOR C  
01110000011001010111111011000111  
:D

---

(B XOR C) XOR D  
10111010101101110011000011010010  
:F

11001010011000101100000111010110  
:K  
1111110101001010101000011001101  
:A lrot 5  
10111010101101110011000011010010  
:F

---

:(A lrot 5) + F  
110111001010111001000000110011111  
:Out

110111001010111001000000110011111  
:(A lrot 5) + F  
1010111111101110101101110001010  
:E

---

:(A lrot 5) + F + E  
1001101001010010111101110100101001  
:Out

1001101001010010111101110100101001  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
1110011001110101110100111101111111  
:Out

1110011001110101110100111101111111  
:(A lrot 5) + F + E + K  
1111000100011110100000010110110  
:Word 67

---

:(A lrot 5) + F + E + K + Word 67  
10000010110000111101110111110110101  
:temp

0010110000111101110111110110101  
:truncated temp  
0111000001100101011111011000111  
:E = D  
00110010011010010100111011010010  
:D = C  
1111110001011101100000000110001  
:C = B Left Rotate 30  
0110111111101010010101010000110  
:B = A  
0010110000111101110111110110101  
:A = Temp

---

Word 68

0110111111101010010101010000110  
:B  
1111110001011101100000000110001  
:C

---

B XOR C

10010001110110111110101010110111

:Out

10010001110110111110101010110111

:B XOR C

00110010011010010100111011010010

:D

---

(B XOR C) XOR D

10100011101100101010010001100101

:F

11001010011000101100000111010110

:K

10000111101110111111011010100101

:A lrot 5

10100011101100101010010001100101

:F

---

:(A lrot 5) + F

100101011011011101001101100001010

:Out

100101011011011101001101100001010

:(A lrot 5) + F

01110000011001010111111011000111

:E

---

:(A lrot 5) + F + E

1110011011110101000001100111010001

:Out

1110011011110101000001100111010001

:(A lrot 5) + F + E

11001010011000101100000111010110

:K

---

:(A lrot 5) + F + E + K

100011001100011011011011110100111

:Out

10001100110001101101101101110100111  
:(A lrot 5) + F + E + K  
00011100100001010000101011110100  
:Word 68

---

:(A lrot 5) + F + E + K + Word 68  
110010000010101110111110011010011011  
:temp

10000010101110111110011010011011  
:truncated temp  
00110010011010010100111011010010  
:E = D  
1111110001011101100000000110001  
:D = C  
1001101111111010100101010100001  
:C = B Left Rotate 30  
0010110000111101110111110110101  
:B = A  
10000010101110111110011010011011  
:A = Temp

---

Word 69

00101100001111011101111110110101  
:B  
1001101111111010100101010100001  
:C

---

B XOR C  
10110111110000001001010100010100  
:Out

10110111110000001001010100010100  
:B XOR C  
1111110001011101100000000110001  
:D

---

(B XOR C) XOR D  
01001001111011100101010100100101

:F

11001010011000101100000111010110

:K

01010111011111001101001101110000

:A lrot 5

01001001111011100101010100100101

:F

---

:(A lrot 5) + F

110100001011010110010100010010101

:Out

110100001011010110010100010010101

:(A lrot 5) + F

00110010011010010100111011010010

:E

---

:(A lrot 5) + F + E

1111010011110101000111011101100111

:Out

1111010011110101000111011101100111

:(A lrot 5) + F + E

11001010011000101100000111010110

:K

---

:(A lrot 5) + F + E + K

10010011110001101110011100100111101

:Out

10010011110001101110011100100111101

:(A lrot 5) + F + E + K

11000001010100000000110000101111

:Word 69

---

:(A lrot 5) + F + E + K + Word 69

11010101111100001110100010101101100

:temp

0101111100001110100010101101100

:truncated temp  
1111110001011101100000000110001  
:E = D  
1001101111111010100101010100001  
:D = C  
01001011000011110111011111101101  
:C = B Left Rotate 30  
10000010101110111110011010011011  
:B = A  
0101111100001110100010101101100  
:A = Temp

---

Word 70

10000010101110111110011010011011  
:B  
01001011000011110111011111101101  
:C

---

B XOR C  
11001001101101001001000101110110  
:Out

11001001101101001001000101110110  
:B XOR C  
1001101111111010100101010100001  
:D

---

(B XOR C) XOR D  
01010010010010011101101111010111  
:F

11001010011000101100000111010110  
:K  
11110000111010001010110110001011  
:A lrot 5  
01010010010010011101101111010111  
:F

---

:(A lrot 5) + F  
101000011001100101000100101100010  
:Out

101000011001100101000100101100010  
:(A lrot 5) + F  
111111000101110110000000110001  
:E

---

:(A lrot 5) + F + E  
1001000001011000010100100110010011  
:Out

1001000001011000010100100110010011  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
11100001011110001000000101101101001  
:Out

11100001011110001000000101101101001  
:(A lrot 5) + F + E + K  
00000100000010011010000101011111  
:Word 70

---

:(A lrot 5) + F + E + K + Word 70  
111100001111110011011010110011001000  
:temp

00001111110011011010110011001000  
:truncated temp  
1001101111111010100101010100001  
:E = D  
01001011000011110111011111101101  
:D = C  
11100000101011101111100110100110  
:C = B Left Rotate 30  
01011111100001110100010101101100  
:B = A  
00001111110011011010110011001000  
:A = Temp

---

Word 71

01011111100001110100010101101100

:B

11100000101011101111100110100110

:C

---

B XOR C

10111111001010011011110011001010

:Out

10111111001010011011110011001010

:B XOR C

0100101100001111011101111101101

:D

---

(B XOR C) XOR D

11110100001001101100101100100111

:F

11001010011000101100000111010110

:K

11111001101101011001100100000001

:A lrot 5

11110100001001101100101100100111

:F

---

:(A lrot 5) + F

111101101110111000110010000101000

:Out

111101101110111000110010000101000

:(A lrot 5) + F

1001101111111010100101010100001

:E

---

:(A lrot 5) + F + E

1010001001110110011010111011001001

:Out

1010001001110110011010111011001001

:(A lrot 5) + F + E

11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
11101010100001111000111000010011111  
:Out

11101010100001111000111000010011111  
:(A lrot 5) + F + E + K  
1111101000011011101111000011111  
:Word 71

---

:(A lrot 5) + F + E + K + Word 71  
100001010001010010100100111010111110  
:temp

01010001010010100100111010111110  
:truncated temp  
01001011000011110111011111101101  
:E = D  
11100000101011101111100110100110  
:D = C  
00010111111000011101000101011011  
:C = B Left Rotate 30  
00001111110011011010110011001000  
:B = A  
01010001010010100100111010111110  
:A = Temp

---

Word 72

00001111110011011010110011001000  
:B  
00010111111000011101000101011011  
:C

---

B XOR C  
00011000001011000111110110010011  
:Out

00011000001011000111110110010011

:B XOR C  
11100000101011101111100110100110  
:D

---

(B XOR C) XOR D  
11111000100000101000010000110101  
:F

11001010011000101100000111010110  
:K  
00101001010010011101011111001010  
:A lrot 5  
11111000100000101000010000110101  
:F

---

:(A lrot 5) + F  
10010000111001100010110111111111  
:Out

10010000111001100010110111111111  
:(A lrot 5) + F  
01001011000011110111011111101101  
:E

---

:(A lrot 5) + F + E  
11011011001101101111101001111101100  
:Out

11011011001101101111101001111101100  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
10000110111001111101001010111000010  
:Out

10000110111001111101001010111000010  
:(A lrot 5) + F + E + K  
10110001100111110011001011100011  
:Word 72

---

:(A lrot 5) + F + E + K + Word 72  
110011101000110111011100100010100101  
:temp

11101000110111011100100010100101  
:truncated temp  
11100000101011101111100110100110  
:E = D  
00010111111000011101000101011011  
:D = C  
00000011111100110110101100110010  
:C = B Left Rotate 30  
01010001010010100100111010111110  
:B = A  
11101000110111011100100010100101  
:A = Temp

---

Word 73

01010001010010100100111010111110  
:B  
00000011111100110110101100110010  
:C

---

B XOR C  
01010010101110010010010110001100  
:Out

01010010101110010010010110001100  
:B XOR C  
00010111111000011101000101011011  
:D

---

(B XOR C) XOR D  
01000101010110001111010011010111  
:F

11001010011000101100000111010110  
:K  
00011011101110010001010010111101  
:A lrot 5

01000101010110001111010011010111

:F

---

:(A lrot 5) + F

101100001000100100000100110010100

:Out

101100001000100100000100110010100

:(A lrot 5) + F

11100000101011101111100110100110

:E

---

:(A lrot 5) + F + E

1001000001110000010000001100111010

:Out

1001000001110000010000001100111010

:(A lrot 5) + F + E

11001010011000101100000111010110

:K

---

:(A lrot 5) + F + E + K

11100001100001000111100010100010000

:Out

11100001100001000111100010100010000

:(A lrot 5) + F + E + K

01101000101011111100001010100010

:Word 73

---

:(A lrot 5) + F + E + K + Word 73

111101110100110100111000011110110010

:temp

01110100110100111000011110110010

:truncated temp

00010111111000011101000101011011

:E = D

00000011111100110110101100110010

:D = C

10010100010100101001001110101111

:C = B Left Rotate 30

11101000110111011100100010100101  
:B = A  
01110100110100111000011110110010  
:A = Temp

---

Word 74

11101000110111011100100010100101  
:B  
10010100010100101001001110101111  
:C

---

B XOR C  
01111100100011110101101100001010  
:Out

01111100100011110101101100001010  
:B XOR C  
000000111111001101101100110010  
:D

---

(B XOR C) XOR D  
0111111011111000011000000111000  
:F

11001010011000101100000111010110  
:K  
10011010011100001111011001001110  
:A lrot 5  
0111111011111000011000000111000  
:F

---

:(A lrot 5) + F  
100011001111011010010011010000110  
:Out

100011001111011010010011010000110  
:(A lrot 5) + F  
00010111111000011101000101011011  
:E

---

:(A lrot 5) + F + E  
1100110001110011101111011111100001  
:Out

1100110001110011101111011111100001  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
1111111100001100011011100110110111  
:Out

1111111100001100011011100110110111  
:(A lrot 5) + F + E + K  
00001011011000100111001101111001  
:Word 74

---

:(A lrot 5) + F + E + K + Word 74  
100000000111100101000010110100110000  
:temp

00000111100101000010110100110000  
:truncated temp  
0000001111100110110101100110010  
:E = D  
10010100010100101001001110101111  
:D = C  
01111010001101110111001000101001  
:C = B Left Rotate 30  
01110100110100111000011110110010  
:B = A  
00000111100101000010110100110000  
:A = Temp

---

Word 75

01110100110100111000011110110010  
:B  
01111010001101110111001000101001  
:C

---

B XOR C  
00001110111001001111010110011011  
:Out

00001110111001001111010110011011  
:B XOR C  
10010100010100101001001110101111  
:D

---

(B XOR C) XOR D  
10011010101101100110011000110100  
:F

11001010011000101100000111010110  
:K  
11110010100001011010011000000000  
:A lrot 5  
10011010101101100110011000110100  
:F

---

:(A lrot 5) + F  
110001101001111000000110000110100  
:Out

110001101001111000000110000110100  
:(A lrot 5) + F  
0000001111100110110101100110010  
:E

---

:(A lrot 5) + F + E  
1110010001001011110111011101100110  
:Out

1110010001001011110111011101100110  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
10001011011100100100011100100111100  
:Out

10001011011100100100011100100111100  
:(A lrot 5) + F + E + K  
10101100011001001011110101100101  
:Word 75

---

:(A lrot 5) + F + E + K + Word 75  
1101000001111110110111011010100001  
:temp

000001111110110111011010100001  
:truncated temp  
10010100010100101001001110101111  
:E = D  
01111010001101110111001000101001  
:D = C  
10011101001101001110000111101100  
:C = B Left Rotate 30  
00000111100101000010110100110000  
:B = A  
000001111110110111011010100001  
:A = Temp

---

Word 76

00000111100101000010110100110000  
:B  
10011101001101001110000111101100  
:C

---

B XOR C  
10011010101000001100110011011100  
:Out

10011010101000001100110011011100  
:B XOR C  
01111010001101110111001000101001  
:D

---

(B XOR C) XOR D  
11100000100101111011111011110101

:F

11001010011000101100000111010110

:K

1111110110111101101010000100000

:A lrot 5

11100000100101111011111011110101

:F

---

:(A lrot 5) + F

111011111011101101001001100010101

:Out

111011111011101101001001100010101

:(A lrot 5) + F

10010100010100101001001110101111

:E

---

:(A lrot 5) + F + E

1001110011110010010010011011000100

:Out

1001110011110010010010011011000100

:(A lrot 5) + F + E

11001010011000101100000111010110

:K

---

:(A lrot 5) + F + E + K

11100111110001010111110100010011010

:Out

11100111110001010111110100010011010

:(A lrot 5) + F + E + K

00111110010011110010101100100010

:Word 76

---

:(A lrot 5) + F + E + K + Word 76

111101111100011110110001001110111100

:temp

01111100011110110001001110111100

:truncated temp  
01111010001101110111001000101001  
:E = D  
10011101001101001110000111101100  
:D = C  
00000001111001010000101101001100  
:C = B Left Rotate 30  
0000011111101101111011010100001  
:B = A  
01111100011110110001001110111100  
:A = Temp

---

Word 77

0000011111101101111011010100001  
:B  
00000001111001010000101101001100  
:C

---

B XOR C  
0000011000010011111110111101101  
:Out

0000011000010011111110111101101  
:B XOR C  
10011101001101001110000111101100  
:D

---

(B XOR C) XOR D  
10011011001001110001110000000001  
:F

11001010011000101100000111010110  
:K  
10001111011000100111011110001111  
:A lrot 5  
10011011001001110001110000000001  
:F

---

:(A lrot 5) + F  
100101010100010011001001110010000  
:Out

100101010100010011001001110010000  
:(A lrot 5) + F  
01111010001101110111001000101001  
:E

---

:(A lrot 5) + F + E  
1110100100110000010000010110111001  
:Out

1110100100110000010000010110111001  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
10001101111001000111100011110001111  
:Out

10001101111001000111100011110001111  
:(A lrot 5) + F + E + K  
01100100110101001110010111011000  
:Word 77

---

:(A lrot 5) + F + E + K + Word 77  
110011010011111110001010110101100111  
:temp

1101001111110001010110101100111  
:truncated temp  
10011101001101001110000111101100  
:E = D  
00000001111001010000101101001100  
:D = C  
0100000111111011011110110101000  
:C = B Left Rotate 30  
0111100011110110001001110111100  
:B = A  
1101001111110001010110101100111  
:A = Temp

---

Word 78

01111100011110110001001110111100

:B

0100000111111011011110110101000

:C

---

B XOR C

00111101100001101010111000010100

:Out

00111101100001101010111000010100

:B XOR C

00000001111001010000101101001100

:D

---

(B XOR C) XOR D

00111100011000111010010101011000

:F

11001010011000101100000111010110

:K

01111111000101011010110011111010

:A lrot 5

00111100011000111010010101011000

:F

---

:(A lrot 5) + F

110111011011110010101001001010010

:Out

110111011011110010101001001010010

:(A lrot 5) + F

10011101001101001110000111101100

:E

---

:(A lrot 5) + F + E

1001011000101011100011010000111110

:Out

1001011000101011100011010000111110

:(A lrot 5) + F + E

11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
11100100011000100001111011000010100  
:Out

11100100011000100001111011000010100  
:(A lrot 5) + F + E + K  
11111010101001010011000000000000  
:Word 78

---

:(A lrot 5) + F + E + K + Word 78  
100000011101101101100010011000010100  
:temp

00011101101101100010011000010100  
:truncated temp  
00000001111001010000101101001100  
:E = D  
0100000111111011011110110101000  
:D = C  
00011111000111101100010011101111  
:C = B Left Rotate 30  
1101001111110001010110101100111  
:B = A  
00011101101101100010011000010100  
:A = Temp

---

Word 79

1101001111110001010110101100111  
:B  
00011111000111101100010011101111  
:C

---

B XOR C  
11001100111001100110100110001000  
:Out

11001100111001100110100110001000

:B XOR C  
0100000111111011011110110101000  
:D

---

(B XOR C) XOR D  
10001101000110111101010000100000  
:F

11001010011000101100000111010110  
:K  
10110110110001001100001010000011  
:A lrot 5  
10001101000110111101010000100000  
:F

---

:(A lrot 5) + F  
101000011111000001001011010100011  
:Out

101000011111000001001011010100011  
:(A lrot 5) + F  
00000001111001010000101101001100  
:E

---

:(A lrot 5) + F + E  
1101000101110001011010000111101111  
:Out

1101000101110001011010000111101111  
:(A lrot 5) + F + E  
11001010011000101100000111010110  
:K

---

:(A lrot 5) + F + E + K  
10000010000001010000110001111000101  
:Out

10000010000001010000110001111000101  
:(A lrot 5) + F + E + K  
01000000100101110110010110010100  
:Word 79

---

:(A lrot 5) + F + E + K + Word 79  
11000101000010111111100100101011001  
:temp

0101000010111111100100101011001  
:truncated temp  
0100000111111011011110110101000  
:E = D  
00011111000111101100010011101111  
:D = C  
1111010011111100010101101011001  
:C = B Left Rotate 30  
00011101101101100010011000010100  
:B = A  
0101000010111111100100101011001  
:A = Temp

---

01100111010001010010001100000001  
:h0  
0101000010111111100100101011001  
:A

---

:h0 + A  
110111000000001001110110001011010  
:h0

1110111110011011010101110001001  
:h1  
00011101101101100010011000010100  
:B

---

:h1 + B  
100001101100000111101000110011101  
:h1

10011000101110101101110011111110  
:h2  
1111010011111100010101101011001  
:C

---

:h2 + C  
110001101101110010000100001010111

:h2

00010000001100100101010001110110

:h3

00011111000111101100010011101111

:D

---

:h3 + D

100101111010100010001100101100101

:h3

11000011110100101110000111110000

:h4

0100000111111011011110110101000

:E

---

:h4 + E

100000101110100001001111110011000

:h4

10111000000001001110110001011010

:h0 truncated

00001101100000111101000110011101

:h1 truncated

10001101101110010000100001010111

:h2 truncated

00101111010100010001100101100101

:h3 truncated

00000101110100001001111110011000

:h4 truncated

b804ec5a

:h0 in hex

d83d19d

:h1 in hex

8db90857

:h2 in hex

2f511965

:h3 in hex

5d09f98

:h4 in hex

b804ec5a0d83d19d8db908572f51196505d09f98

:digest

