

```
int led0 = 0;
int led1 = 1;
int led2 = 2;
int led3 = 3;
int led4 = 4;
int led5 = 5;
int led6 = 6;
int led7 = 7;
int led8 = 8;
int led9 = 9;
int led10 = 10;
int led11= 11;
int led12= 12;
int led13= 13;
```

```
void setup() {
  pinMode(led0,OUTPUT);
  pinMode(led1,OUTPUT);
  pinMode(led2,OUTPUT);
  pinMode(led3,OUTPUT);
  pinMode(led4,OUTPUT);
  pinMode(led5,OUTPUT);
  pinMode(led6,OUTPUT);
  pinMode(led7,OUTPUT);
  pinMode(led8,OUTPUT);
  pinMode(led9,OUTPUT);
  pinMode(led10,OUTPUT);
  pinMode(led11,OUTPUT);
  pinMode(led12,OUTPUT);
  pinMode(led13,OUTPUT);

}
```

```
void loop()
{

  blink_1();
  blink_1();

  blink_2();
  blink_2();
```

```
blink_3();  
blink_3();
```

```
blink_4();  
blink_4();
```

```
blink_5();  
blink_5();
```

```
blink_6();  
blink_6();
```

```
blink_7();  
blink_7();
```

```
blink_8();  
blink_8();
```

```
blink_9();  
blink_9();
```

```
blink_10();  
blink_10();
```

```
blink_11();  
blink_11();
```

```
blink_12();  
blink_12();
```

```
blink_13();  
blink_13();
```

```
blink_14();  
blink_14();
```

```
blink_15();  
blink_15();
```

```
blink_16();  
blink_16();
```

```
// blink_17();  
// blink_17();
```

```
// blink_18();  
// blink_18();
```

```
// blink_19();  
// blink_19();
```

```
// blink_20();  
// blink_20();
```

```
// blink_21();  
// blink_21();
```

```
// blink_22();  
// blink_22();
```

```
// blink_23();  
// blink_23();
```

```
// blink_24();  
// blink_24();
```

```
// blink_25();  
// blink_25();
```

```
// blink_26();  
// blink_26();
```

```
// blink_27();  
// blink_27();
```

```
// blink_28();  
// blink_28();
```

```
// blink_29();  
// blink_29();
```

```
// blink_30();  
// blink_30();
```

```
// blink_31();  
// blink_31();
```

```
// blink_32();  
// blink_32();
```

```
// blink_33();  
// blink_33();
```

```
// blink_34();  
// blink_4();
```

```
// blink_35();  
// blink_35();
```

```
// blink_36();  
// blink_36();
```

```
}
```

```
//////////pattern 1//////////
```

```
void blink_1()
```

```
{  
  int t=80;
```

```
  
  digitalWrite(led1, HIGH );  
  delay(t);  
  digitalWrite(led2,HIGH);  
  delay(t);  
  digitalWrite(led3,HIGH);  
  delay(t);  
  digitalWrite(led4,HIGH);  
  delay(t);  
  digitalWrite(led5,HIGH);  
  delay(t);  
  digitalWrite(led6,HIGH);  
  delay(t);  
  digitalWrite(led7,HIGH);  
  delay(t);  
  digitalWrite(led8,HIGH);  
  delay(t);
```

```
digitalWrite(led9,HIGH);
delay(t);
digitalWrite(led10,HIGH);
delay(t);
digitalWrite(led11,HIGH);
delay(t);
digitalWrite(led12,HIGH);
delay(t);
digitalWrite(led13,HIGH);
delay(t);
```

```
////////////////////
```

```
digitalWrite(led1, LOW );
delay(t);
digitalWrite(led2,LOW);
delay(t);
digitalWrite(led3,LOW);
delay(t);
digitalWrite(led4,LOW);
delay(t);
digitalWrite(led5,LOW);
delay(t);
digitalWrite(led6,LOW);
delay(t);
digitalWrite(led7,LOW);
delay(t);
digitalWrite(led8,LOW);
delay(t);
digitalWrite(led9,LOW);
delay(t);
digitalWrite(led10,LOW);
delay(t);
digitalWrite(led11,LOW);
delay(t);
digitalWrite(led12,LOW);
delay(t);
digitalWrite(led13,LOW);
delay(t);
```

}

////////pattern 2////////////////////////////////////

{

```
digitalWrite(led1,HIGH);
delay(t);
digitalWrite(led1,LOW);
digitalWrite(led2,HIGH);
delay(t);
digitalWrite(led2,LOW);
digitalWrite(led3,HIGH);
delay(t);
digitalWrite(led3,LOW);
digitalWrite(led4,HIGH);
delay(t);
digitalWrite(led4,LOW);
digitalWrite(led5,HIGH);
delay(t);
digitalWrite(led5,LOW);
```

```
digitalWrite(led6,HIGH);
delay(t);
digitalWrite(led6,LOW);
digitalWrite(led7,HIGH);
delay(t);
digitalWrite(led7,LOW);
digitalWrite(led8,HIGH);
delay(t);
digitalWrite(led8,LOW);
digitalWrite(led9,HIGH);
delay(t);
digitalWrite(led9,LOW);
digitalWrite(led10,HIGH);
delay(t);
digitalWrite(led10,LOW);
digitalWrite(led11,HIGH);
delay(t);
digitalWrite(led11,LOW);
digitalWrite(led12,HIGH);
delay(t);
digitalWrite(led12,LOW);
digitalWrite(led13,HIGH);
delay(t);
digitalWrite(led13,LOW);
delay(t);
```

```
digitalWrite(led1, LOW);
digitalWrite(led2,LOW);
digitalWrite(led3,LOW);
digitalWrite(led4,LOW);
digitalWrite(led5,LOW);
digitalWrite(led6,LOW);
digitalWrite(led7,LOW);
digitalWrite(led8, LOW);
digitalWrite(led9,LOW);
digitalWrite(led10,LOW);
digitalWrite(led11,LOW);
digitalWrite(led12,LOW);
digitalWrite(led13,LOW);
```

```
}
```

```
////////////////////////////////////////////////////  
/////////  
////////////////////////////////////pattern 3////////////////////////////////////  
void blink_3()  
{  
    int t=150;  
  
    digitalWrite(led1, HIGH );  
  
    digitalWrite(led3,HIGH);  
  
    digitalWrite(led5,HIGH);  
  
    digitalWrite(led7,HIGH);  
  
    digitalWrite(led9,HIGH);  
  
    digitalWrite(led11,HIGH);  
  
    digitalWrite(led13,HIGH);  
  
    digitalWrite(led2,LOW);  
  
    digitalWrite(led4,LOW);  
  
    digitalWrite(led6,LOW);  
  
    digitalWrite(led8,LOW);  
  
    digitalWrite(led10,LOW);  
  
    digitalWrite(led12,LOW);  
    delay(t);  
/////////  
digitalWrite(led1, LOW );  
  
    digitalWrite(led3,LOW);  
  
    digitalWrite(led5,LOW);  
  
    digitalWrite(led7,LOW);  
  
    digitalWrite(led9,LOW);
```

```
digitalWrite(led11,LOW);  
  
digitalWrite(led13,LOW);  
  
digitalWrite(led2,HIGH);  
  
digitalWrite(led4,HIGH);  
  
digitalWrite(led6,HIGH);  
  
digitalWrite(led8,HIGH);  
  
digitalWrite(led10,HIGH);  
  
digitalWrite(led12,HIGH);  
delay(t);
```

```
digitalWrite(led1, HIGH );  
  
digitalWrite(led3,HIGH);  
  
digitalWrite(led5,HIGH);  
  
digitalWrite(led7,HIGH);  
  
digitalWrite(led9,HIGH);  
  
digitalWrite(led11,HIGH);  
  
digitalWrite(led13,HIGH);  
  
digitalWrite(led2,LOW);  
  
digitalWrite(led4,LOW);  
  
digitalWrite(led6,LOW);  
  
digitalWrite(led8,LOW);
```

```
digitalWrite(led10,LOW);

digitalWrite(led12,LOW);
delay(t);
//////////
digitalWrite(led1, LOW );

digitalWrite(led3,LOW);

digitalWrite(led5,LOW);

digitalWrite(led7,LOW);

digitalWrite(led9,LOW);

digitalWrite(led11,LOW);

digitalWrite(led13,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led6,HIGH);

digitalWrite(led8,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led12,HIGH);
delay(t);
```

```
digitalWrite(led1, LOW);
digitalWrite(led2,LOW);
digitalWrite(led3,LOW);
digitalWrite(led4,LOW);
digitalWrite(led5,LOW);
digitalWrite(led6,LOW);
digitalWrite(led7,LOW);
digitalWrite(led8, LOW);
digitalWrite(led9,LOW);
digitalWrite(led10,LOW);
```

```
digitalWrite(led11,LOW);
digitalWrite(led12,LOW);
digitalWrite(led13,LOW);
```

```
}
```

```
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

```
//////////
```

```
//////////pattern 4//////////
```

```
void blink_4()
```

```
{
```

```
    int t=80;
```

```
    digitalWrite(led1, HIGH );
```

```
    delay(t);
```

```
    digitalWrite(led2,HIGH);
```

```
    delay(t);
```

```
    digitalWrite(led3,HIGH);
```

```
    digitalWrite(led1, LOW );
```

```
    delay(t);
```

```
    digitalWrite(led4,HIGH);
```

```
    digitalWrite(led2, LOW );
```

```
    delay(t);
```

```
    digitalWrite(led5,HIGH);
```

```
    digitalWrite(led3, LOW );
```

```
    delay(t);
```

```
    digitalWrite(led6,HIGH);
```

```
    digitalWrite(led4, LOW );
```

```
    delay(t);
```

```
    digitalWrite(led7,HIGH);
```

```
    digitalWrite(led5, LOW );
```

```
    delay(t);
```

```
    digitalWrite(led8,HIGH);
```

```
digitalWrite(led6, LOW );  
delay(t);
```

```
digitalWrite(led9,HIGH);  
digitalWrite(led7, LOW );  
delay(t);
```

```
digitalWrite(led10,HIGH);  
digitalWrite(led8, LOW );  
delay(t);
```

```
digitalWrite(led11,HIGH);  
digitalWrite(led9, LOW );  
delay(t);
```

```
digitalWrite(led12,HIGH);  
digitalWrite(led10, LOW );  
delay(t);
```

```
digitalWrite(led13,HIGH);  
digitalWrite(led11, LOW );  
delay(t);
```

```
digitalWrite(led12, LOW );  
delay(t);
```

```
digitalWrite(led13, LOW );  
delay(t);
```

```
digitalWrite(led1, LOW);  
digitalWrite(led2,LOW);  
digitalWrite(led3,LOW);  
digitalWrite(led4,LOW);  
digitalWrite(led5,LOW);  
digitalWrite(led6,LOW);  
digitalWrite(led7,LOW);  
digitalWrite(led8, LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led10,LOW);  
digitalWrite(led11,LOW);  
digitalWrite(led12,LOW);  
digitalWrite(led13,LOW);
```

```

////////////////////////////////////
////////
////////pattern 5////////////////////////////////

```

```
void blink_5()
{
    int t=70;

digitalWrite(led1,HIGH);
    delay(t);
    digitalWrite(led1,LOW);
    digitalWrite(led2,HIGH);
    delay(t);
    digitalWrite(led2,LOW);
    digitalWrite(led3,HIGH);
    delay(t);
    digitalWrite(led3,LOW);
    digitalWrite(led4,HIGH);
    delay(t);
    digitalWrite(led4,LOW);
    digitalWrite(led5,HIGH);
    delay(t);
    digitalWrite(led5,LOW);
    digitalWrite(led6,HIGH);
    delay(t);
    digitalWrite(led6,LOW);
    digitalWrite(led7,HIGH);
    delay(t);
    digitalWrite(led7,LOW);
    digitalWrite(led8,HIGH);
    delay(t);
    digitalWrite(led8,LOW);
    digitalWrite(led9,HIGH);
    delay(t);
    digitalWrite(led9,LOW);
    digitalWrite(led10,HIGH);
    delay(t);
    digitalWrite(led10,LOW);
    digitalWrite(led11,HIGH);
    delay(t);
    digitalWrite(led11,LOW);
    digitalWrite(led12,HIGH);
```

```
    delay(t);  
    digitalWrite(led12,LOW);  
    digitalWrite(led13,HIGH);  
    delay(t);
```

```
digitalWrite(led1,HIGH);  
    delay(t);  
    digitalWrite(led1,LOW);  
    digitalWrite(led2,HIGH);  
    delay(t);  
    digitalWrite(led2,LOW);  
    digitalWrite(led3,HIGH);  
    delay(t);  
    digitalWrite(led3,LOW);  
    digitalWrite(led4,HIGH);  
    delay(t);  
    digitalWrite(led4,LOW);  
    digitalWrite(led5,HIGH);  
    delay(t);  
    digitalWrite(led5,LOW);  
    digitalWrite(led6,HIGH);  
    delay(t);  
    digitalWrite(led6,LOW);  
    digitalWrite(led7,HIGH);  
    delay(t);  
    digitalWrite(led7,LOW);  
    digitalWrite(led8,HIGH);  
    delay(t);  
    digitalWrite(led8,LOW);  
    digitalWrite(led9,HIGH);  
    delay(t);  
    digitalWrite(led9,LOW);  
    digitalWrite(led10,HIGH);  
    delay(t);  
    digitalWrite(led10,LOW);  
    digitalWrite(led11,HIGH);  
    delay(t);  
        digitalWrite(led11,LOW);  
    digitalWrite(led12,HIGH);  
    delay(t);
```

```
digitalWrite(led1,HIGH);
```

```
delay(t);
digitalWrite(led1,LOW);
digitalWrite(led2,HIGH);
delay(t);
digitalWrite(led2,LOW);
digitalWrite(led3,HIGH);
delay(t);
digitalWrite(led3,LOW);
digitalWrite(led4,HIGH);
delay(t);
digitalWrite(led4,LOW);
digitalWrite(led5,HIGH);
delay(t);
digitalWrite(led5,LOW);
digitalWrite(led6,HIGH);
delay(t);
digitalWrite(led6,LOW);
digitalWrite(led7,HIGH);
delay(t);
digitalWrite(led7,LOW);
digitalWrite(led8,HIGH);
  delay(t);
digitalWrite(led8,LOW);
digitalWrite(led9,HIGH);
  delay(t);
digitalWrite(led9,LOW);
digitalWrite(led10,HIGH);
  delay(t);
digitalWrite(led10,LOW);
digitalWrite(led11,HIGH);
  delay(t);
```

```
digitalWrite(led1,HIGH);
delay(t);
digitalWrite(led1,LOW);
digitalWrite(led2,HIGH);
delay(t);
digitalWrite(led2,LOW);
digitalWrite(led3,HIGH);
delay(t);
digitalWrite(led3,LOW);
digitalWrite(led4,HIGH);
delay(t);
```

```
digitalWrite(led4,LOW);
digitalWrite(led5,HIGH);
delay(t);
digitalWrite(led5,LOW);
digitalWrite(led6,HIGH);
delay(t);
digitalWrite(led6,LOW);
digitalWrite(led7,HIGH);
delay(t);
digitalWrite(led7,LOW);
digitalWrite(led8,HIGH);
delay(t);
digitalWrite(led8,LOW);
digitalWrite(led9,HIGH);
delay(t);
digitalWrite(led9,LOW);
digitalWrite(led10,HIGH);
delay(t);
```

```
digitalWrite(led1,HIGH);
delay(t);
digitalWrite(led1,LOW);
digitalWrite(led2,HIGH);
delay(t);
digitalWrite(led2,LOW);
digitalWrite(led3,HIGH);
delay(t);
digitalWrite(led3,LOW);
digitalWrite(led4,HIGH);
delay(t);
digitalWrite(led4,LOW);
digitalWrite(led5,HIGH);
delay(t);
digitalWrite(led5,LOW);
digitalWrite(led6,HIGH);
delay(t);
digitalWrite(led6,LOW);
digitalWrite(led7,HIGH);
delay(t);
digitalWrite(led7,LOW);
digitalWrite(led8,HIGH);
delay(t);
digitalWrite(led8,LOW);
digitalWrite(led9,HIGH);
```

```
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led2,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led3,HIGH);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led4,HIGH);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led5,HIGH);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led6,HIGH);  
delay(t);  
digitalWrite(led6,LOW);  
digitalWrite(led7,HIGH);  
delay(t);  
digitalWrite(led7,LOW);  
digitalWrite(led8,HIGH);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led2,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led3,HIGH);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led4,HIGH);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led5,HIGH);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led6,HIGH);  
delay(t);  
digitalWrite(led6,LOW);
```

```
digitalWrite(led7,HIGH);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led2,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led3,HIGH);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led4,HIGH);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led5,HIGH);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led6,HIGH);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led2,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led3,HIGH);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led4,HIGH);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led5,HIGH);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led2,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led3,HIGH);  
delay(t);
```

```
digitalWrite(led3,LOW);  
digitalWrite(led4,HIGH);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led2,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led3,HIGH);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led2,HIGH);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);
```

```
digitalWrite(led1, LOW);  
digitalWrite(led2,LOW);  
digitalWrite(led3,LOW);  
digitalWrite(led4,LOW);  
digitalWrite(led5,LOW);  
digitalWrite(led6,LOW);  
digitalWrite(led7,LOW);  
digitalWrite(led8, LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led10,LOW);  
digitalWrite(led11,LOW);  
digitalWrite(led12,LOW);  
digitalWrite(led13,LOW);
```

```
}
```

```
///////////////////////////////////////////////////////////////////////////////////////////////////////////////////  
////////////////////////////////////  
////////////////pattern 6//////////////////////////////////////////  
  
void blink_6()  
{  
    int t=70;  
  
digitalWrite(led1,HIGH);  
    delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led2,HIGH);  
    delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led3,HIGH);  
    delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led4,HIGH);  
    delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led5,HIGH);  
    delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led6,HIGH);  
    delay(t);  
digitalWrite(led6,LOW);  
digitalWrite(led7,HIGH);  
    delay(t);  
digitalWrite(led7,LOW);  
digitalWrite(led8,HIGH);  
    delay(t);  
digitalWrite(led8,LOW);  
digitalWrite(led9,HIGH);  
    delay(t);  
digitalWrite(led9,LOW);  
digitalWrite(led10,HIGH);  
    delay(t);  
digitalWrite(led10,LOW);  
digitalWrite(led11,HIGH);  
    delay(t);  
    digitalWrite(led11,LOW);  
digitalWrite(led12,HIGH);  
    delay(t);  
digitalWrite(led12,LOW);  
digitalWrite(led13,HIGH);
```

```
    delay(t);
    digitalWrite(led13,LOW);
    digitalWrite(led12,HIGH);
    delay(t);
    digitalWrite(led12,LOW);
    digitalWrite(led11,HIGH);
    delay(t);
    digitalWrite(led11,LOW);
    digitalWrite(led10,HIGH);
    delay(t);
    digitalWrite(led10,LOW);
    digitalWrite(led9,HIGH);
    delay(t);
    digitalWrite(led9,LOW);
    digitalWrite(led8,HIGH);
    delay(t);
    digitalWrite(led8,LOW);
    digitalWrite(led7,HIGH);
    delay(t);
    digitalWrite(led7,LOW);
    digitalWrite(led6,HIGH);
    delay(t);
    digitalWrite(led6,LOW);
    digitalWrite(led5,HIGH);
    delay(t);
    digitalWrite(led5,LOW);
    digitalWrite(led4,HIGH);
    delay(t);
    digitalWrite(led4,LOW);
    digitalWrite(led3,HIGH);
    delay(t);
    digitalWrite(led3,LOW);
    digitalWrite(led2,HIGH);
    delay(t);
    digitalWrite(led2,LOW);
    digitalWrite(led1,HIGH);
    delay(t);
```

```
digitalWrite(led1,HIGH);
delay(t);
digitalWrite(led1,LOW);
digitalWrite(led2,HIGH);
delay(t);
```

```
digitalWrite(led2,LOW);
digitalWrite(led3,HIGH);
delay(t);
digitalWrite(led3,LOW);
digitalWrite(led4,HIGH);
delay(t);
digitalWrite(led4,LOW);
digitalWrite(led5,HIGH);
delay(t);
digitalWrite(led5,LOW);
digitalWrite(led6,HIGH);
delay(t);
digitalWrite(led6,LOW);
digitalWrite(led7,HIGH);
delay(t);
digitalWrite(led7,LOW);
digitalWrite(led8,HIGH);
  delay(t);
digitalWrite(led8,LOW);
digitalWrite(led9,HIGH);
  delay(t);
digitalWrite(led9,LOW);
digitalWrite(led10,HIGH);
  delay(t);
digitalWrite(led10,LOW);
digitalWrite(led11,HIGH);
  delay(t);
  digitalWrite(led11,LOW);
digitalWrite(led12,HIGH);
  delay(t);
digitalWrite(led12,LOW);
digitalWrite(led13,HIGH);
  delay(t);
digitalWrite(led13,LOW);
digitalWrite(led12,HIGH);
delay(t);
digitalWrite(led12,LOW);
digitalWrite(led11,HIGH);
delay(t);
digitalWrite(led11,LOW);
digitalWrite(led10,HIGH);
delay(t);
digitalWrite(led10,LOW);
digitalWrite(led9,HIGH);
```

```
delay(t);
digitalWrite(led9,LOW);
digitalWrite(led8,HIGH);
delay(t);
digitalWrite(led8,LOW);
digitalWrite(led7,HIGH);
delay(t);
digitalWrite(led7,LOW);
digitalWrite(led6,HIGH);
delay(t);
digitalWrite(led6,LOW);
digitalWrite(led5,HIGH);
delay(t);
digitalWrite(led5,LOW);
digitalWrite(led4,HIGH);
delay(t);
digitalWrite(led4,LOW);
digitalWrite(led3,HIGH);
delay(t);
digitalWrite(led3,LOW);
digitalWrite(led2,HIGH);
delay(t);
digitalWrite(led2,LOW);
digitalWrite(led1,HIGH);
delay(t);
```

```
digitalWrite(led1, LOW);
digitalWrite(led2,LOW);
digitalWrite(led3,LOW);
digitalWrite(led4,LOW);
digitalWrite(led5,LOW);
digitalWrite(led6,LOW);
digitalWrite(led7,LOW);
digitalWrite(led8, LOW);
digitalWrite(led9,LOW);
digitalWrite(led10,LOW);
digitalWrite(led11,LOW);
digitalWrite(led12,LOW);
digitalWrite(led13,LOW);
```

```
}
```



```
digitalWrite(led5,LOW);
delay(t);
digitalWrite(led6,LOW);
delay(t);
digitalWrite(led7,LOW);
delay(t);
digitalWrite(led8,LOW);
delay(t);
digitalWrite(led9,LOW);
delay(t);
digitalWrite(led10,LOW);
delay(t);
digitalWrite(led11,LOW);
delay(t);
digitalWrite(led12,LOW);
delay(t);
digitalWrite(led13,LOW);
delay(t);
```

```
digitalWrite(led13, HIGH );
delay(t);
digitalWrite(led12,HIGH);
delay(t);
digitalWrite(led11,HIGH);
delay(t);
digitalWrite(led10,HIGH);
delay(t);
digitalWrite(led9,HIGH);
delay(t);
digitalWrite(led8,HIGH);
delay(t);
digitalWrite(led7,HIGH);
delay(t);
digitalWrite(led6,HIGH);
delay(t);
digitalWrite(led5,HIGH);
delay(t);
digitalWrite(led4,HIGH);
delay(t);
digitalWrite(led3,HIGH);
delay(t);
digitalWrite(led2,HIGH);
delay(t);
```

```
digitalWrite(led1,HIGH);  
delay(t);
```

```
digitalWrite(led13, LOW );  
delay(t);  
digitalWrite(led12,LOW);  
delay(t);  
digitalWrite(led11,LOW);  
delay(t);  
digitalWrite(led10,LOW);  
delay(t);  
digitalWrite(led9,LOW);  
delay(t);  
digitalWrite(led8,LOW);  
delay(t);  
digitalWrite(led7,LOW);  
delay(t);  
digitalWrite(led6,LOW);  
delay(t);  
digitalWrite(led5,LOW);  
delay(t);  
digitalWrite(led4,LOW);  
delay(t);  
digitalWrite(led3,LOW);  
delay(t);  
digitalWrite(led2,LOW);  
delay(t);  
digitalWrite(led1,LOW);  
delay(t);
```

```
digitalWrite(led1, LOW);  
digitalWrite(led2,LOW);  
digitalWrite(led3,LOW);  
digitalWrite(led4,LOW);  
digitalWrite(led5,LOW);  
digitalWrite(led6,LOW);  
digitalWrite(led7,LOW);  
digitalWrite(led8, LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led10,LOW);  
digitalWrite(led11,LOW);
```

```
//////////////////////////////////////
//////////
//////////pattern 8////////////////////////////////////
```

```
digitalWrite(led1, HIGH);  
digitalWrite(led13, HIGH);  
delay(t);  
digitalWrite(led2,HIGH);  
digitalWrite(led12, HIGH);  
delay(t);  
digitalWrite(led3,HIGH);  
digitalWrite(led11, HIGH);  
delay(t);  
digitalWrite(led4,HIGH);  
digitalWrite(led10,HIGH);  
delay(t);  
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);
```

```
digitalWrite(led1, LOW );
digitalWrite(led13, LOW );
delay(t);
digitalWrite(led2,LOW);
digitalWrite(led12, LOW );
delay(t);
digitalWrite(led3,LOW);
digitalWrite(led11, LOW);
delay(t);
digitalWrite(led4,LOW);
digitalWrite(led10,LOW);
delay(t);
digitalWrite(led5,LOW);
digitalWrite(led9,LOW);
```

```
delay(t);  
digitalWrite(led6,LOW);  
digitalWrite(led8,LOW);  
delay(t);
```

```
digitalWrite(led1, HIGH );  
    digitalWrite(led13, HIGH );  
delay(t);  
digitalWrite(led2,HIGH);  
digitalWrite(led12, HIGH );  
delay(t);  
digitalWrite(led3,HIGH);  
digitalWrite(led11, HIGH );  
delay(t);  
digitalWrite(led4,HIGH);  
digitalWrite(led10,HIGH);  
delay(t);  
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);
```

```
digitalWrite(led1, LOW );  
digitalWrite(led13, LOW );  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led12, LOW );  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led11, LOW);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led10,LOW);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9,LOW);  
delay(t);  
digitalWrite(led6,LOW);  
digitalWrite(led8,LOW);  
delay(t);
```

```
}
```

```
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////  
////////////////////////////////////////////////////////////////
```

```
//////////pattern 9////////////////////////////////////////////////////////////////
```

```
void blink_9()
```

```
{
```

```
    int t=70;
```

```
        digitalWrite(led1, HIGH );
```

```
        digitalWrite(led13, HIGH );
```

```
        delay(t);
```

```
        digitalWrite(led2,HIGH);
```

```
        digitalWrite(led12, HIGH );
```

```
        delay(t);
```

```
        digitalWrite(led3,HIGH);
```

```
        digitalWrite(led11, HIGH );
```

```
        delay(t);
```

```
        digitalWrite(led4,HIGH);
```

```
        digitalWrite(led10,HIGH);
```

```
        delay(t);
```

```
        digitalWrite(led5,HIGH);
```

```
        digitalWrite(led9,HIGH);
```

```
        delay(t);
```

```
        digitalWrite(led6,HIGH);
```

```
        digitalWrite(led8,HIGH);
```

```
        delay(t);
```

```
        digitalWrite(led8, LOW );
```

```
        digitalWrite(led6, LOW );
```

```
        delay(t);
```

```
        digitalWrite(led5,LOW);
```

```
        digitalWrite(led9, LOW );
```

```
        delay(t);
```

```
        digitalWrite(led4,LOW);
```

```
        digitalWrite(led10, LOW);
```

```
        delay(t);
```

```
        digitalWrite(led3,LOW);
```

```
        digitalWrite(led11,LOW);
```

```
        delay(t);
```

```
        digitalWrite(led2,LOW);
```

```
        digitalWrite(led12,LOW);
```

```
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led13,LOW);  
delay(t);
```

```
digitalWrite(led1, HIGH );  
digitalWrite(led13, HIGH );  
delay(t);  
digitalWrite(led2,HIGH);  
digitalWrite(led12, HIGH );  
delay(t);  
digitalWrite(led3,HIGH);  
digitalWrite(led11, HIGH );  
delay(t);  
digitalWrite(led4,HIGH);  
digitalWrite(led10,HIGH);  
delay(t);  
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);
```

```
digitalWrite(led8, LOW );  
digitalWrite(led6, LOW );  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9, LOW );  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led10, LOW);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led11,LOW);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led12,LOW);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led13,LOW);  
delay(t);
```

```
digitalWrite(led1, HIGH );
```

```
digitalWrite(led13, HIGH );  
delay(t);  
digitalWrite(led2,HIGH);  
digitalWrite(led12, HIGH );  
delay(t);  
digitalWrite(led3,HIGH);  
digitalWrite(led11, HIGH );  
delay(t);  
digitalWrite(led4,HIGH);  
digitalWrite(led10,HIGH);  
delay(t);  
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);
```

```
digitalWrite(led8, LOW );  
digitalWrite(led6, LOW );  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9, LOW );  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led10, LOW);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led11,LOW);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led12,LOW);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led13,LOW);  
delay(t);
```

```
digitalWrite(led1, LOW);  
digitalWrite(led2,LOW);  
digitalWrite(led3,LOW);  
digitalWrite(led4,LOW);  
digitalWrite(led5,LOW);  
digitalWrite(led6,LOW);
```

```
////////////////////////////////////  
////////////////////////////////////  
////////////////////////////////pattern 10/////////////////////////////////  
void blink_10()  
{  
    int t=100;
```

```
digitalWrite(led1, LOW);
digitalWrite(led2, LOW);
digitalWrite(led3, LOW);
digitalWrite(led4, LOW);
digitalWrite(led5, LOW);
digitalWrite(led6, LOW);
digitalWrite(led7, LOW);
digitalWrite(led8, LOW);
digitalWrite(led9, LOW);
digitalWrite(led10, LOW);
```

```
digitalWrite(led11,LOW);  
digitalWrite(led12,LOW);  
digitalWrite(led13,LOW);  
delay(t);
```

```
digitalWrite(led1, HIGH);  
digitalWrite(led2,HIGH);  
digitalWrite(led3,HIGH);  
digitalWrite(led4,HIGH);  
digitalWrite(led5,HIGH);  
digitalWrite(led6,HIGH);  
digitalWrite(led7,HIGH);  
digitalWrite(led8, HIGH);  
digitalWrite(led9,HIGH);  
digitalWrite(led10,HIGH);  
digitalWrite(led11,HIGH);  
digitalWrite(led12,HIGH);  
digitalWrite(led13,HIGH);  
delay(t);
```

```
digitalWrite(led1, LOW);  
digitalWrite(led2,LOW);  
digitalWrite(led3,LOW);  
digitalWrite(led4,LOW);  
digitalWrite(led5,LOW);  
digitalWrite(led6,LOW);  
digitalWrite(led7,LOW);  
digitalWrite(led8, LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led10,LOW);  
digitalWrite(led11,LOW);  
digitalWrite(led12,LOW);  
digitalWrite(led13,LOW);  
delay(t);
```

```
digitalWrite(led1, HIGH);  
digitalWrite(led2,HIGH);  
digitalWrite(led3,HIGH);  
digitalWrite(led4,HIGH);  
digitalWrite(led5,HIGH);  
digitalWrite(led6,HIGH);  
digitalWrite(led7,HIGH);
```

```
digitalWrite(led1, LOW);
digitalWrite(led2, LOW);
digitalWrite(led3, LOW);
digitalWrite(led4, LOW);
digitalWrite(led5, LOW);
digitalWrite(led6, LOW);
digitalWrite(led7, LOW);
digitalWrite(led8, LOW);
digitalWrite(led9, LOW);
digitalWrite(led10, LOW);
digitalWrite(led11, LOW);
digitalWrite(led12, LOW);
digitalWrite(led13, LOW);
delay(t);
}
```

```

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////pattern 11////////////////////////////////////////////////////////////////
void blink_11()
{
    int t=80;

    digitalWrite(led1, HIGH );
    delay(t);
    digitalWrite(led2,HIGH);
    delay(t);

    digitalWrite(led3,HIGH);
    digitalWrite(led1, LOW );
    delay(t);

    digitalWrite(led4,HIGH);
    digitalWrite(led2, LOW );
    delay(t);
}

```

```
digitalWrite(led5,HIGH);  
digitalWrite(led3, LOW );  
delay(t);
```

```
digitalWrite(led6,HIGH);  
digitalWrite(led4, LOW );  
delay(t);
```

```
digitalWrite(led7,HIGH);  
digitalWrite(led5, LOW );  
delay(t);
```

```
digitalWrite(led8,HIGH);  
digitalWrite(led6, LOW );  
delay(t);
```

```
digitalWrite(led9,HIGH);  
digitalWrite(led7, LOW );  
delay(t);
```

```
digitalWrite(led10,HIGH);  
digitalWrite(led8, LOW );  
delay(t);
```

```
digitalWrite(led11,HIGH);  
digitalWrite(led9, LOW );  
delay(t);
```

```
digitalWrite(led12,HIGH);  
digitalWrite(led10, LOW );  
delay(t);
```

```
digitalWrite(led13,HIGH);  
digitalWrite(led11, LOW );  
delay(t);
```

```
digitalWrite(led12, LOW );  
delay(t);
```

```
digitalWrite(led13, LOW );  
delay(t);
```

```
digitalWrite(led13, HIGH );  
delay(t);
```

```
digitalWrite(led12, HIGH );  
delay(t);
```

```
digitalWrite(led11,HIGH);  
digitalWrite(led13, LOW );  
delay(t);
```

```
digitalWrite(led10,HIGH);  
digitalWrite(led12, LOW );  
delay(t);
```

```
digitalWrite(led9,HIGH);  
digitalWrite(led11, LOW );  
delay(t);
```

```
digitalWrite(led8,HIGH);  
digitalWrite(led10, LOW );  
delay(t);
```

```
digitalWrite(led7,HIGH);  
digitalWrite(led9, LOW );  
delay(t);
```

```
digitalWrite(led6,HIGH);  
digitalWrite(led8, LOW );  
delay(t);
```

```
digitalWrite(led5,HIGH);  
digitalWrite(led7, LOW );  
delay(t);
```

```
digitalWrite(led4,HIGH);  
digitalWrite(led6, LOW );  
delay(t);
```

```
digitalWrite(led3,HIGH);  
digitalWrite(led5, LOW );  
delay(t);
```

```
digitalWrite(led2,HIGH);  
digitalWrite(led4, LOW );
```

delay(t);

```
digitalWrite(led1,HIGH);
digitalWrite(led3, LOW );
delay(t);
```

```
digitalWrite(led2, LOW );  
delay(t);
```

```
digitalWrite(led1, LOW );  
delay(t);
```

```
digitalWrite(led1, LOW);  
digitalWrite(led2, LOW);  
digitalWrite(led3, LOW);  
digitalWrite(led4, LOW);  
digitalWrite(led5, LOW);  
digitalWrite(led6, LOW);  
digitalWrite(led7, LOW);  
digitalWrite(led8, LOW);  
digitalWrite(led9, LOW);  
digitalWrite(led10, LOW);  
digitalWrite(led11, LOW);  
digitalWrite(led12, LOW);  
digitalWrite(led13, LOW);
```

}

[illegible]

```
digitalWrite(led1, HIGH );  
delay(t);  
digitalWrite(led2,HIGH);  
delay(t);  
digitalWrite(led3,HIGH);  
delay(t);
```

```
digitalWrite(led4,HIGH);  
digitalWrite(led1, LOW );  
delay(t);
```

```
digitalWrite(led5,HIGH);  
digitalWrite(led2, LOW );  
delay(t);
```

```
digitalWrite(led6,HIGH);  
digitalWrite(led3, LOW );  
delay(t);
```

```
digitalWrite(led7,HIGH);  
digitalWrite(led4, LOW );  
delay(t);
```

```
digitalWrite(led8,HIGH);  
digitalWrite(led5, LOW );  
delay(t);
```

```
digitalWrite(led9,HIGH);  
digitalWrite(led6, LOW );  
delay(t);
```

```
digitalWrite(led10,HIGH);  
digitalWrite(led7, LOW );  
delay(t);
```

```
digitalWrite(led11,HIGH);  
digitalWrite(led8, LOW );  
delay(t);
```

```
digitalWrite(led12,HIGH);  
digitalWrite(led9, LOW );  
delay(t);
```

```
    digitalWrite(led13,HIGH);  
digitalWrite(led10,LOW);  
delay(t);
```

```
digitalWrite(led11,LOW);  
delay(t);  
digitalWrite(led12,LOW);  
delay(t);  
digitalWrite(led13,LOW);  
delay(t);
```

```
digitalWrite(led13,HIGH);  
delay(t);  
digitalWrite(led12,HIGH);  
delay(t);  
digitalWrite(led11,HIGH);  
delay(t);
```

```
digitalWrite(led10,HIGH);  
    digitalWrite(led13, LOW );  
    delay(t);  
digitalWrite(led9,HIGH);  
    digitalWrite(led12, LOW );  
    delay(t);  
digitalWrite(led8,HIGH);  
    digitalWrite(led11, LOW );  
    delay(t);  
digitalWrite(led7,HIGH);  
    digitalWrite(led10, LOW );  
    delay(t);  
digitalWrite(led6,HIGH);  
    digitalWrite(led9, LOW );  
    delay(t);  
digitalWrite(led5,HIGH);  
    digitalWrite(led8, LOW );  
    delay(t);  
digitalWrite(led4,HIGH);  
    digitalWrite(led7, LOW );  
    delay(t);  
digitalWrite(led3,HIGH);  
    digitalWrite(led6, LOW );  
    delay(t);  
digitalWrite(led2,HIGH);  
    digitalWrite(led5, LOW );
```

```
digitalWrite(led1, LOW);
digitalWrite(led2, LOW);
digitalWrite(led3, LOW);
digitalWrite(led4, LOW);
digitalWrite(led5, LOW);
digitalWrite(led6, LOW);
digitalWrite(led7, LOW);
digitalWrite(led8, LOW);
digitalWrite(led9, LOW);
digitalWrite(led10, LOW);
digitalWrite(led11, LOW);
digitalWrite(led12, LOW);
digitalWrite(led13, LOW);
```

```
int t=90;
digitalWrite(led1, HIGH );
digitalWrite(led13, HIGH );
delay(t);
digitalWrite(led1, LOW );
digitalWrite(led13, LOW );
delay(t);
digitalWrite(led2,HIGH);
digitalWrite(led12, HIGH );
delay(t);
digitalWrite(led2, LOW );
```

```
    digitalWrite(led12, LOW );
    delay(t);
    digitalWrite(led3,HIGH);
    digitalWrite(led11, HIGH );
    delay(t);
    digitalWrite(led3, LOW );
    digitalWrite(led11, LOW );
    delay(t);
    digitalWrite(led4,HIGH);
    digitalWrite(led10,HIGH);
    delay(t);
    digitalWrite(led4, LOW );
    digitalWrite(led10, LOW );
    delay(t);
    digitalWrite(led5,HIGH);
    digitalWrite(led9,HIGH);
    delay(t);
    digitalWrite(led5, LOW );
    digitalWrite(led9, LOW );
    delay(t);
    digitalWrite(led6,HIGH);
    digitalWrite(led8,HIGH);
    delay(t);
    digitalWrite(led6, LOW );
    digitalWrite(led8, LOW );
    delay(t);
    digitalWrite(led7,HIGH);
    delay(t);
    digitalWrite(led7,LOW);
    delay(t);
    digitalWrite(led8, HIGH);
    digitalWrite(led6, HIGH );
    delay(t);
    digitalWrite(led6, LOW );
    digitalWrite(led8, LOW );
    delay(t);
    digitalWrite(led5,HIGH);
    digitalWrite(led9,HIGH);
    delay(t);
    digitalWrite(led5, LOW );
    digitalWrite(led9, LOW );
    delay(t);
    digitalWrite(led4,HIGH);
    digitalWrite(led10,HIGH);
```

```
delay(t);
digitalWrite(led4, LOW );
digitalWrite(led10, LOW );
delay(t);
digitalWrite(led3,HIGH);
digitalWrite(led11, HIGH );
delay(t);
digitalWrite(led3, LOW );
digitalWrite(led11, LOW );
delay(t);
digitalWrite(led2,HIGH);
digitalWrite(led12, HIGH );
delay(t);
digitalWrite(led2, LOW );
digitalWrite(led12, LOW );
delay(t);
digitalWrite(led1, HIGH );
digitalWrite(led13, HIGH );
delay(t);
digitalWrite(led1, LOW );
digitalWrite(led13, LOW );
delay(t);
```

```
digitalWrite(led1, HIGH );
digitalWrite(led13, HIGH );
delay(t);
digitalWrite(led1, LOW );
digitalWrite(led13, LOW );
delay(t);
digitalWrite(led2,HIGH);
digitalWrite(led12, HIGH );
delay(t);
digitalWrite(led2, LOW );
digitalWrite(led12, LOW );
delay(t);
digitalWrite(led3,HIGH);
digitalWrite(led11, HIGH );
delay(t);
digitalWrite(led3, LOW );
digitalWrite(led11, LOW );
delay(t);
digitalWrite(led4,HIGH);
digitalWrite(led10,HIGH);
```

```
delay(t);
digitalWrite(led4, LOW );
  digitalWrite(led10, LOW );
delay(t);
digitalWrite(led5,HIGH);
digitalWrite(led9,HIGH);
delay(t);
digitalWrite(led5, LOW );
digitalWrite(led9, LOW );
delay(t);
digitalWrite(led6,HIGH);
digitalWrite(led8,HIGH);
delay(t);
digitalWrite(led6, LOW );
digitalWrite(led8, LOW );
delay(t);
digitalWrite(led7,HIGH);
  delay(t);
  digitalWrite(led7,LOW);
  delay(t);
digitalWrite(led8, HIGH);
digitalWrite(led6, HIGH );
delay(t);
  digitalWrite(led6, LOW );
digitalWrite(led8, LOW );
delay(t);
digitalWrite(led5,HIGH);
digitalWrite(led9,HIGH);
delay(t);
digitalWrite(led5, LOW );
digitalWrite(led9, LOW );
delay(t);
digitalWrite(led4,HIGH);
digitalWrite(led10,HIGH);
delay(t);
digitalWrite(led4, LOW );
  digitalWrite(led10, LOW );
delay(t);
digitalWrite(led3,HIGH);
digitalWrite(led11, HIGH );
delay(t);
digitalWrite(led3, LOW );
  digitalWrite(led11, LOW );
delay(t);
```

```
digitalWrite(led2,HIGH);
digitalWrite(led12, HIGH );
delay(t);
digitalWrite(led2, LOW );
digitalWrite(led12, LOW );
delay(t);
digitalWrite(led1, HIGH );
digitalWrite(led13, HIGH );
delay(t);
digitalWrite(led1, LOW );
digitalWrite(led13, LOW );
delay(t);
```

```
}
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
//////////
//////////pattern 14////////////////////////////////////////////////////////////////
void blink_14()
{
    int t=80;
```

```
digitalWrite(led1,HIGH);
digitalWrite(led13,HIGH);
delay(t);
digitalWrite(led1,LOW);
digitalWrite(led13,LOW);
digitalWrite(led2,HIGH);
digitalWrite(led12,HIGH);
delay(t);
digitalWrite(led2,LOW);
digitalWrite(led12,LOW);
digitalWrite(led3,HIGH);
digitalWrite(led11,HIGH);
delay(t);
digitalWrite(led3,LOW);
digitalWrite(led11,LOW);
digitalWrite(led4,HIGH);
digitalWrite(led10,HIGH);
delay(t);
digitalWrite(led4,LOW);
digitalWrite(led10,LOW);
digitalWrite(led5,HIGH);
digitalWrite(led9,HIGH);
```

```
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);  
digitalWrite(led6,LOW);  
digitalWrite(led8,LOW);  
delay(t);
```

```
digitalWrite(led7,HIGH);  
delay(t);  
digitalWrite(led7,LOW);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
digitalWrite(led13,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led13,LOW);  
digitalWrite(led2,HIGH);  
digitalWrite(led12,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led12,LOW);  
digitalWrite(led3,HIGH);  
digitalWrite(led11,HIGH);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led11,LOW);  
digitalWrite(led4,HIGH);  
digitalWrite(led10,HIGH);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led10,LOW);  
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);  
digitalWrite(led6,LOW);
```

```
digitalWrite(led8,LOW);  
delay(t);
```

```
digitalWrite(led7,HIGH);  
delay(t);  
digitalWrite(led7,LOW);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
digitalWrite(led13,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led13,LOW);  
digitalWrite(led2,HIGH);  
digitalWrite(led12,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led12,LOW);  
digitalWrite(led3,HIGH);  
digitalWrite(led11,HIGH);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led11,LOW);  
digitalWrite(led4,HIGH);  
digitalWrite(led10,HIGH);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led10,LOW);  
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);  
digitalWrite(led6,LOW);  
digitalWrite(led8,LOW);  
delay(t);
```

```
digitalWrite(led7,HIGH);  
delay(t);  
digitalWrite(led7,LOW);  
delay(t);
```



```
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);  
digitalWrite(led6,LOW);  
digitalWrite(led8,LOW);  
delay(t);
```

```
digitalWrite(led7,HIGH);  
delay(t);  
digitalWrite(led7,LOW);  
delay(t);
```

```
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);
```

```
digitalWrite(led6,LOW);  
digitalWrite(led8,LOW);  
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led4,HIGH);  
digitalWrite(led10,HIGH);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led10,LOW);  
digitalWrite(led3,HIGH);  
digitalWrite(led11,HIGH);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led11,LOW);  
digitalWrite(led2,HIGH);  
digitalWrite(led12,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led12,LOW);  
digitalWrite(led1,HIGH);
```

```
digitalWrite(led13,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led13,LOW);  
delay(t);
```

```
digitalWrite(led1,HIGH);  
digitalWrite(led13,HIGH);  
delay(t);  
digitalWrite(led1,LOW);  
digitalWrite(led13,LOW);  
digitalWrite(led2,HIGH);  
digitalWrite(led12,HIGH);  
delay(t);  
digitalWrite(led2,LOW);  
digitalWrite(led12,LOW);  
digitalWrite(led3,HIGH);  
digitalWrite(led11,HIGH);  
delay(t);  
digitalWrite(led3,LOW);  
digitalWrite(led11,LOW);  
digitalWrite(led4,HIGH);  
digitalWrite(led10,HIGH);  
delay(t);  
digitalWrite(led4,LOW);  
digitalWrite(led10,LOW);  
digitalWrite(led5,HIGH);  
digitalWrite(led9,HIGH);  
delay(t);  
digitalWrite(led5,LOW);  
digitalWrite(led9,LOW);  
digitalWrite(led6,HIGH);  
digitalWrite(led8,HIGH);  
delay(t);  
digitalWrite(led6,LOW);  
digitalWrite(led8,LOW);  
delay(t);
```

```
digitalWrite(led7,HIGH);  
delay(t);  
digitalWrite(led7,LOW);  
delay(t);
```

```
digitalWrite(led6,HIGH);
```

}

```

////////////////////////////////////
////////

```

 $\{$

}