

P1

```
#include<stdio.h>
int main()
{
    int age;
    scanf("%d",&age);
    if(age<15)
    {
        printf("Welcome to the show\n");
        printf("Please note that you should be accompanied by an adult");
    }
    else
        printf("Welcome to the show");
    return 0;
}
```

python

```
age=int(input())
if age<15:
    print("Welcome to the show")
    print("Please note that you should be
accompanied by an adult")
else:
    print("Welcome to the show")
```

P2

```
#include<stdio.h>
int main()
{
    int age;
    scanf("%d",&age);
    if(age<15)
        printf("Child Ticket");
    else
        printf("Adult Ticket");
    return 0;
}
```

python

```
age=int(input())
if age<15:
    print("Child Ticket")
else:
    print("Adult Ticket")
```

P3

```
#include<stdio.h>
int main()
{
    int age;
    scanf("%d",&age);
    if((age<15)|| (age>60))
        printf("Not Allowed");
    else
        printf("Allowed");
    return 0;
}
```

python

```
age=int(input())
if age<15 or age>60:
    print("Not Allowed")
else:
    print("Allowed")
```

P4

```
#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if((n%10==3)|| (n%10==8))
```

```

printf("Lucky Winner");
else
printf("Not a Lucky Winner");
return 0;
}

```

Python

```

n=int(input())
l=n%10
if l==3 or l==8:
    print("Lucky Winner")
else:
    print("Not a Lucky Winner")

```

P5

```

#include<stdio.h>
int main()
{
int n1,n2,n3;
char c1,c2,c3;
scanf("%c%d\n",&c1,&n1);
scanf("%c%d\n",&c2,&n2);
scanf("%c%d",&c3,&n3);
if((c1==c2)&&(c1==c3))
{
    if((n1==n2)&&(n1==n3))
        printf("Double Bonanza");
    else
        printf("Bonanza");
}
else if((n1==n2)&&(n1==n3))
    printf("Bonanza");
else
    printf("No Bonanza");
return 0;
}

```

Python :

```
c1,n1=input().split()
c2,n2=input().split()
c3,n3=input().split()
if c1==c2 and c1==c3:
    if n1==n2 and n1==n3:
        print("Double Bonanza")
    else:
        print("Bonanza")
elif n1==n2 and n1==n3:
    print("Bonanza")
else:
    print("No Bonanza")
```

P6

```
#include<stdio.h>
int main()
{
    int a,b,c;
    scanf("\n%d%d%d", &a, &b, &c);
    if(a+b+c==180)
    {
        if(a==90||b==90||c==90)
            printf("\nPrize 2");
        else if(a==b&&b==c&&a==c&&c==60)
            printf("\nPrize 3");
        else
            printf("\nPrize 1");
    }
    else
        printf("\nNo Prize");
    return 0;
```

```
}
```

Python

```
a1=int(input())
a2=int(input())
a3=int(input())
if (a1+a2+a3)==180:
    if a1==90 or a2==90 or a3==90:
        print("Prize 2")
    elif a1==60 and a2==60 and a3==60:
        print("Prize 3")
    else:
        print("Prize 1")
else:
    print("No Prize")
```

P7

```
#include<stdio.h>
int main()
{
    char a;
    scanf("%c",&a);
    switch(a)
    {
        case 'e':
        case 'E': printf("Early Bird Ticket");
                break;
        case 's':
        case 'S': printf("Standard Ticket");
                break;
        case 'v':
        case 'V': printf("VIP Ticket");
                break;
        case 'd':
        case 'D': printf("Discount Ticket");
                break;
        case 'c':
        case 'C': printf("Child Ticket");
    }
}
```

```
    return 0;  
}
```

Python

```
ch=input()  
ch=ch.upper()  
if ch=='E':  
    print("Early Bird Ticket")  
elif ch=='D':  
    print("Discount Ticket")  
elif ch=='V':  
    print("VIP Ticket")  
elif ch=='S':  
    print("Standard Ticket")  
elif ch=='C':  
    print("Child Ticket")  
else:  
    print("Enter Correct Letter")
```

P8

```
#include<stdio.h>  
int main()  
{  
    int x,n;  
    double t;  
    scanf("%d",&x);  
    scanf("%d",&n);  
    if(n<50)  
        t=x*n;  
    else if(n>=50&&n<=100)  
        t=(0.9*x*n);  
    else if(n>=100&&n<=200)  
        t=(0.8*x*n);  
    else if(n>=200&&n<=400)  
        t=(0.7*x*n);  
    else if(n>=400&&n<=500)  
        t=(0.6*x*n);
```

```
    else if(n>500)
    t=(0.5*x*n);
    printf("%.2lf",t);

    return 0;
}
```

python

```
price=float(input())
n=int(input())
cost=price*n
if n>500:
    cost=cost-cost*0.5
elif n>=401:
    cost=cost-cost*0.4
elif n>=201:
    cost=cost-cost*0.3
elif n>=101:
    cost=cost-cost*0.2
elif n>=50:
    cost=cost-cost*0.1
else:
    cost=cost
print("%.2f"%cost)
```

P9

```
#include<stdio.h>
int main()
{
    int s;
    double g;
    scanf("%d",&s);
    g=(s<15000)?(2.05*s):(1.98*s+5000);
    printf("%.2lf",g);
    return 0;
}
```

python

```
basic=float(input())
if basic>=15000:
    hra=5000
    da=0.98*basic
else:
    hra=0.15*basic
    da=0.9*basic
salary=basic+hra+da
print("%.2f"%salary)
```

P10

```
#include<stdio.h>
int main()
{
    int a,b,c;
    scanf("%d%d%d",&a,&b,&c);
    if(a>50&&b>60&&c>100)
        printf("10");
    else if(a>50&&b>60)
        printf("9");
    else if(b>60&&c>100)
        printf("8");
    else if(a>50&&c>100)
```

```
printf("7");  
else if(a>50||b>60||c>100)  
printf("6");  
else  
printf("5");  
return 0;  
}
```

python

```
hurl,spin,speed=map(int,input().split())  
if hurl>50 and spin>60 and speed>100:  
    grade =10  
elif hurl>50 and spin>60:  
    grade=9  
elif spin>60 and speed>100:  
    grade=8  
elif hurl>50 and speed>100:  
    grade=7  
elif hurl>50 or spin>60 or speed>100:  
    grade=6  
else:  
    grade=5  
print(grade)
```

P11

```
#include<stdio.h>
int main()
{
    int a,b,min,max;
    scanf("%d%d",&a,&b);
    if(a>b)
    {
        max=a;
        min=b;
    }
    else
    {
        min=a;
        max=b;
    }
    printf("%d %d",max,min+max);
    return 0;
}
```

P12

```
#include<stdio.h>
#include<math.h>
int main()
{
    float d1,d2,d3;
    int d,x1,y1,x2,y2,x3,y3;
    scanf("%d\n",&d);
    scanf("%d%d\n",&x1,&y1);
    scanf("%d%d\n",&x2,&y2);
    scanf("%d%d",&x3,&y3);
    d1=sqrt(((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1)));
    d2=sqrt(((x2-x3)*(x2-x3))+((y2-y3)*(y2-y3)));
    d3=sqrt(((x3-x1)*(x3-x1))+((y3-y1)*(y3-y1)));
    if((d1<=d&&d2<=d)|| (d2<=d&&d3<=d)|| (d1<=d&&d3<=d))
    printf("Yes");
    else
    printf("No");
    return 0;
}
```

P14

```
#include<stdio.h>
int main()
```

```

{
    int a,b,c,yr,d;
    scanf("%d",&yr);
    a=(yr-1)/4;
    b=(yr-1)/100;
    c=(yr-1)/400;
    d=(yr+a-b+c)%7;
    switch(d)
    {
        case 0: printf("Sunday");
                break;
        case 1: printf("Monday");
                break;
        case 2: printf("Tuesday");
                break;
        case 3: printf("Wednesday");
                break;
        case 4: printf("Thursday");
                break;
        case 5: printf("Friday");
                break;
        case 6: printf("Saturday");
                break;

    }

    return 0;
}

```

Problem 15 - Chocolate Game

```

#include<stdio.h>
int main()
{
    int n,m;
    scanf("%d %d",&n,&m);
    if((m*n)%2==0)
    {
        printf("Yes\n");
    }
    else
    {
        printf("No\n");
    }
    return 0;
}

```

Problem 16 - Help Lost Child

```

#include<stdio.h>

int main()
{
    int x1,y1,x2,y2;
    scanf("%d %d %d %d",&x1,&y1,&x2,&y2);
}

```

```

if(x1==x2)
{
    if(y1-y2>0)
    {
        printf("down\n");
    }
    else if(y2-y1>0)
    {
        printf("up\n");
    }
}
else if(y1==y2)
{
    if(x1-x2>0)
    {
        printf("left\n");
    }
    else if(x2-x1>0)
    {
        printf("right\n");
    }
}
else
{
    printf("sad\n");
}
return 0;
}

```

Problem 17

```

#include<stdio.h>
int main()
{
    int s1,s2,s3,s4,s5,s,a;
    scanf("%d%d%d%d%d",&s1,&s2,&s3,&s4,&s5);

    if(((s1>2)&&(s2>2)&&(s3>2)&&(s4>2)&&(s5>2))&&((s1==5)|| (s2==5)|| (s3==5)|| (s4==5)|| (s5==5)))
    {
        s=s1+s2+s3+s4+s5;
        a=s/5;
        if(a>=4)
            printf("Yes");
        else
            printf("No");
    }
    else
        printf("No");
    return 0;
}

```

Problem 18 - Co-Partners in Train

```

#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if((n%8)==1)
    {
        printf("%dLB",n+3);
    }
    if((n%8)==2)
    {
        printf("%dMB",n+3);
    }
    if((n%8)==3)
    {
        printf("%dUB",n+3);
    }
    if((n%8)==4)
    {
        printf("%dLB",n-3);
    }
    if((n%8)==5)
    {
        printf("%dMB",n-3);
    }
    if((n%8)==6)
    {
        printf("%dUB",n-3);
    }
    if((n%8)==7)
    {
        printf("%dSU",n+1);
    }
    if((n%8)==0)
    {
        printf("%dSl",n-1);
    }
    return 0;
}

```

Problem 19 --Hanging Bridge

```

#include<stdio.h>
int main()
{
    int c,d,l;
    scanf("%d %d %d",&c,&d,&l);
    if(2*(c+d)<l)
    {
        printf("no\n");
    }
    else
    {
        if(l%2==0)
        {
            printf("yes\n");
        }
    }
}

```

```

        else
        {
            printf("no\n");
        }
    }
    return 0;
}

```

Problem 20 -- Minimum Travel Time

```

#include<stdio.h>
#include<math.h>
int main()
{
    int a,b,c;
    float d,e;
    scanf("%d%d%d",&a,&b,&c);
    d=(sqrt(2)*a)/b;
    e=(float)(2*a)/c;
    if(d<e)
        printf("Stairs");
    else if(d>e)
        printf("Elevator");
    return 0;
}

```

Problem 21 - Daily Routine

```

#include<stdio.h>
#include<string.h>
#include<stdlib.h>
int main()
{
    char s[30];
    int i,j;

    scanf("%s",s);

    for(i=0;s[i]!='\0';i++)
    {
        if(s[i]=='E')
        {
            for(j=i+1; s[j]!='\0';j++)
            {
                if(s[j]=='C')
                {
                    printf("no");
                    exit(0);
                }
            }
        }
        else
        {
            if(s[i]=='S')

```

```
    {
        for(j=i+1; s[j]!='\0';j++)
        {
            if(s[j]=='C' || s[j]=='E')
            {
                printf("no");
                exit(0);
            }
        }
    }
}
printf("yes");
return 0; }
```