```
#include <stdio.h>


int main()
{
   int i,s;
   for(i = 1; i<=10; i++){
      s+=i;
   }
   printf("the sum is = %d",s);
   return 0;
}
```

Output:

```
the sum is = 55

...Program finished with exit code 0
Press ENTER to exit console.
```

```
#include <stdio.h>


int main()
{
   int i,s=1;
   printf("enter the number u want the multiplication table for:\n");
   scanf("%d",&i);
   while(s<=10)
   {
      printf("%d x %d=%d\n",i,s,(s*i));
      ++s;
   }
   return 0;
}
```

Output:

```
enter the number u want the multiplication table for:
7
7 x 1=7
7 x 2=14
7 x 3=21
7 x 4=28
7 x 5=35
7 x 6=42
7 x 7=49
7 x 8=56
7 x 9=63
7 x 10=70
```

```
#include <stdio.h>


int main()
{
   int a,n=1,s;
   printf("enter the upper limit:\n");
   scanf("%d",&a);
   if(n<=a)
      do{
         if(n%2!=0){
            printf("%d ",n);
            s+=n;
         }
         ++n;
      }while(n<=a);
   printf("\nthe sum of odd numbers form 1 to %d  range is = %d",a,s);
   return 0;
}
```

Output:

```
enter the upper limit:
6
1 3 5
the sum of odd numbers form 1 to 6  range is = 9

...Program finished with exit code 0
Press ENTER to exit console.
```

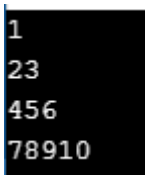
```
#include <stdio.h>

int main()
{
   int i,j;
   for(i=1; i<=4;i++){
      for(j=1;j<=i;j++){
         printf("*");
      }
      printf("\n");
   }


   return 0;
}
```

Output:


```
#include <stdio.h>

int main()
{
   int i=1,j=1,a=1;
   while(i<=4){
      j=1;
      while(j<=i){
         printf("%d",a++);
         j++;
      }
      i++;
```

```
        printf("\n");
    }


    return 0;
}
```

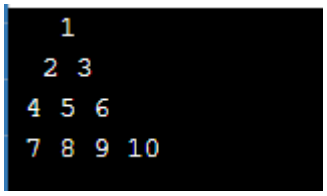
Output:




```
#include <stdio.h>

int main()
{
    int i=1,j=1,a=1,f,x=3;
    do
    {

        f=1;
        do{
            printf(" ");
            f++;
        }while(f<=x);
        j=1;
        do
        {
            printf("%d ",a++);
            j++;
        }while(j<=i);
        i++;
        printf("\n");
```

```
        --x;
    }while(i<=4);



    return 0;
}
```

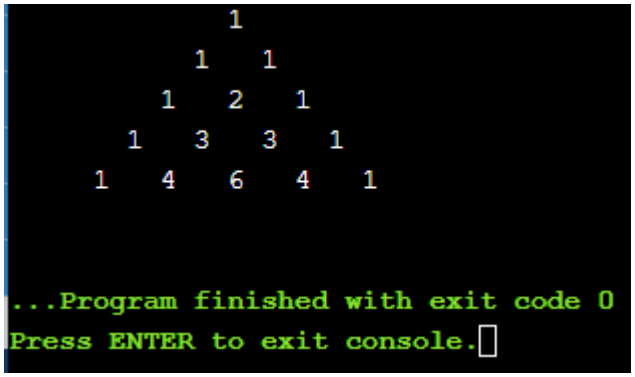
Output




```
#include <stdio.h>

int main()
{
        int a=5,k;
   int arr[a][a];



for (int line = 0; line < a; line++)
{
    for (k = 1; k <= a - line; k++)
         printf("  ");
    for (int i = 0; i <= line; i++)
    {

    if (line == i || i == 0)
        arr[line][i] = 1;

    else
        arr[line][i] = arr[line-1][i-1] + arr[line-1][i];
```

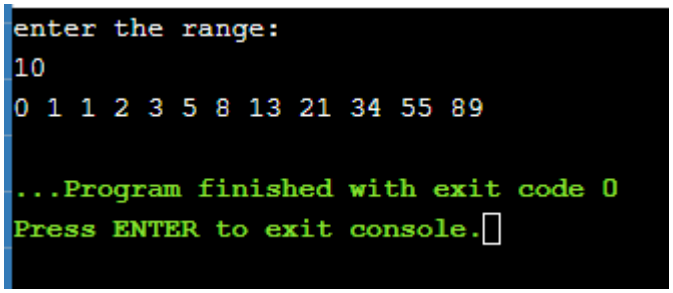
```
    printf("%4d ", arr[line][i]);
    }
    printf("\n");
   }
    return 0;
}
```

Output:



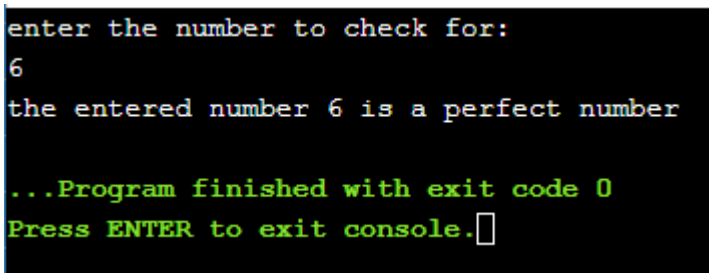

```
#include <stdio.h>


int main()
{
    int i,a=0,b=1,c,r;
    printf("enter the range:\n");
    scanf("%d",&r);
    printf("%d %d",a,b);
    for(i=1;i<=r;i++){
        c=a+b;
        printf(" %d",c);
        a=b;
        b=c;
    }
    return 0;
}
```

Output:




```
#include <stdio.h>


int main()
{
   int i,c,n;
   printf("enter the number to check for:\n");
   scanf("%d",&n);
   i=1;
   while(i<n){
      if(n % i==0){
         c= c+i;


      }
      ++i;


   }


   if(c==n){
      printf("the entered number %d is a perfect number",n);


   }
   else{
      printf("the entered number is not a perfect number");
   }
   return 0;
}
```

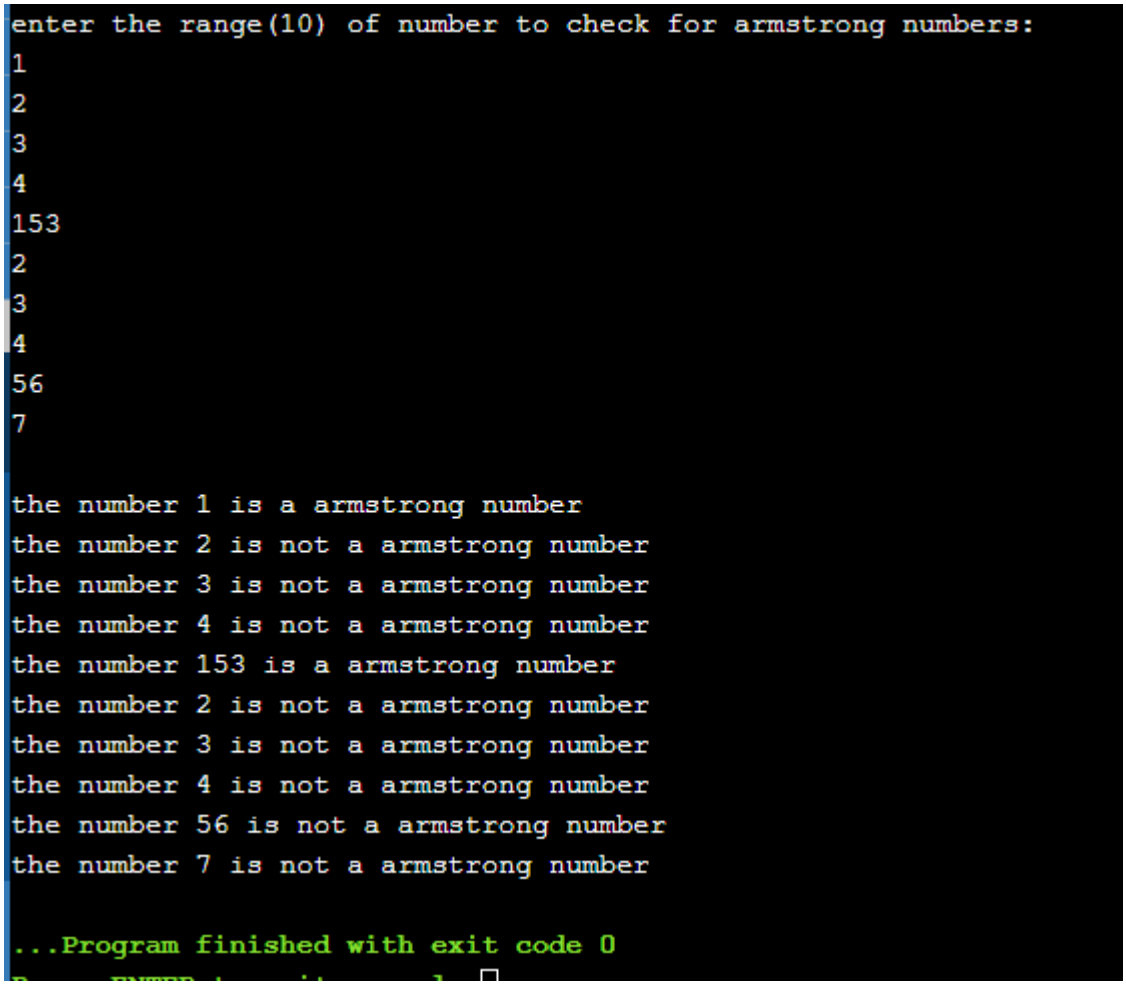
Output:




```
#include <stdio.h>
#include<math.h>

int main()
{
   int i,s,a,n[10],g;

   printf("enter the range(10) of number to check for armstrong numbers:\n");
   i=0;
   while(i<10){
   scanf("%d",&n[i]);++i;
   }
   i=0;
   while(i<10){
      g=n[i];
      s=0;
   while(g!=0){
      a=g%10;
      s=s+pow(a,3);
      g=g/10;

   }
   if(n[i]==s){
      printf("\nthe number %d is a armstrong number",n[i]);
   }else{
```

```
        printf("\nthe number %d is not a armstrong number",n[i]);
    }
    ++i;
    }
    return 0;
}
```

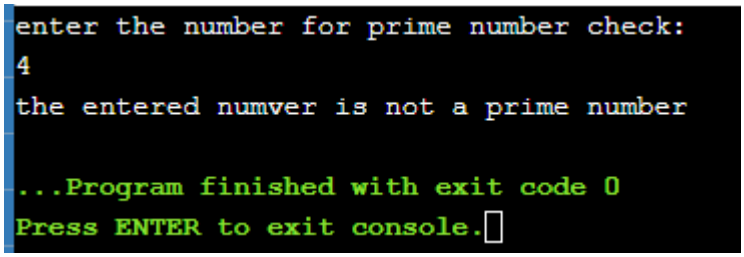
Output:




```
#include <stdio.h>



int main()
{

    int n,i=1,c;
```

```
    printf("enter the number for prime number check:\n");
    scanf("%d",&n);
    while(i<=n){
        if(n%i==0){
            c++;
        }
        i++;
    }
        if(c==2){
            printf("the entered number is a prime number");

        }else{
            printf("the entered numver is not a prime number");
        }
    return 0;
}
```

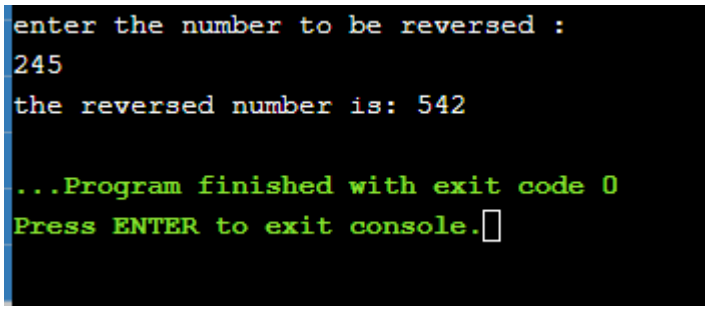
Output:




```
#include <stdio.h>



int main()
{

    int n,a,s=0 ;
    printf("enter the number to be reversed :\n");
    scanf("%d",&n);
```

```
    do{
       a=n%10;
       s=(s*10)+a;
       n=n/10;
    }while(n!=0);
    printf("the reversed number is: %d",s);
    return 0;
}
```

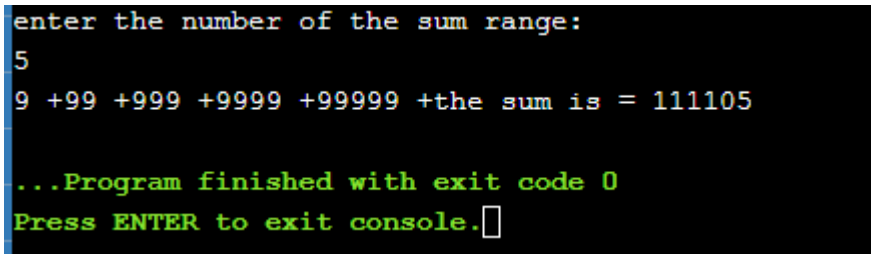
Output:




```
#include <stdio.h>



int main()
{

    int i,n ;
    int s,s1;
    printf("enter the number of the sum range:\n");
    scanf("%d",&n);
    for(i=1;i<=n;i++){
       s=(s*10)+9;
       printf("%d +",s);
       s1=s1+s;
    }
    printf("the sum is = %d",s1);
    return 0;
```

}

Output:




```
#include <stdio.h>
#include <math.h>
int fact();

int main()
{

   int i= 0,n,s,x,x1,c;
   printf("enter the number of the sum range and the coefficient:\n");
   scanf("%d %d",&n,&x1);
   while(i<=n){
      if(i%2==0){
         x=(pow(x1,i))/fact(i);++c;
      }
      if(c%2!=0){
      s=s+x;
      }
      else{
         s=s-x;
      }
      ++i;
   }
   printf("the sum is = %d",s);
```

```
    return 0;
}
int fact(int a){
    int fact,i;
    if(a==0)
    return 1;
for (i = 1; i <= a; ++i) {
          fact *= i;
       }
       return fact;
}
```

```
enter the number of the sum range and the coefficient:
5
2
the sum is = 32769
```

```
#include <stdio.h>
#include <math.h>
int fact();

int main()
{

    int i= 0,n,s,x,x1,c;
    printf("enter the number of the sum range and the coefficient:\n");
    scanf("%d %d",&n,&x1);
    do{
       if(i%2!=0){
          x=pow(x1,i);++c;
       }
       if(c%2!=0){
       s=s+x;
       }
```

```
        else{
            s=s-x;
        }
        ++i;
    }while(i<=n);
    printf("the sum is = %d",s);


    return 0;
}
```

Output: