

Given two numbers, write a C program to swap the given numbers.

**For example:**

Input	Result
10 20	20 10

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,temp,b;
4     scanf("%d %d",&a,&b);
5     temp=a;
6     a=b;
7     b=temp;
8     printf("%d %d",a,b);
9 }
```

	Input	Expected	Got	
✓	10 20	20 10	20 10	✓

Passed all tests! ✓

Write a C program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths  $\geq 65$

Marks in Physics  $\geq 55$

Marks in Chemistry  $\geq 50$

Or

Total in all three subjects  $\geq 180$

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,Total;
4     scanf("%d %d %d",&a,&b,&c);
5     Total=a+b+c;
6     if(Total>=180){
7         printf("The candidate is eligible");
8     }
9     else{
10        printf("The candidate is not eligible");
11    }
12 }
```

	Input	Expected	Got	
✓	70 60 80	The candidate is eligible	The candidate is eligible	✓
✓	50 80 80	The candidate is eligible	The candidate is eligible	✓

Passed all tests! ✓

Malini goes to BestSave hyper market to buy grocery items. BestSave hyper market provides 10% discount on the bill amount B when ever the bill amount B is more than Rs.2000.

The bill amount B is passed as the input to the program. The program must print the final amount A payable by Malini.

```
1  #include<stdio.h>
2  int main(){
3      int a;
4      scanf("%d",&a);
5      if(a>2000){
6          int b=a*0.1;
7          int c=a-b;
8          printf("%d",c);
9      }
10     else{
11         printf("%d",a);
12     }
13 }
```

	Input	Expected	Got	
✓	1900	1900	1900	✓
✓	3000	2700	2700	✓

Passed all tests! ✓

Baba is very kind to beggars and every day Baba donates half of the amount he has when ever a beggar requests him. The money M left in Baba's hand is passed as the input and the number of beggars B who received the alms are passed as the input. The program must print the money Baba had in the beginning of the day.

**Input Format:**

The first line denotes the value of M.  
The second line denotes the value of B.

**Output Format:**

The first line denotes the value of money with Baba in the beginning of the day.

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,d;
4     scanf("%d %d",&a,&b);
5     c=a*b;
6     d=c*b;
7     printf("%d",d);
8 }
```

	Input	Expected	Got	
✓	100 2	400	400	✓

Passed all tests! ✓

The CEO of company ABC Inc wanted to encourage the employees coming on time to the office. So he announced that for every consecutive day an employee comes on time in a week (starting from Monday to Saturday), he will be awarded Rs.200 more than the previous day as "Punctuality Incentive". The incentive I for the starting day (ie on Monday) is passed as the input to the program. The number of days N an employee came on time consecutively starting from Monday is also passed as the input. The program must calculate and print the "Punctuality Incentive" P of the employee.

**Input Format:**

The first line denotes the value of I.  
The second line denotes the value of N.

**Output Format:**

The first line denotes the value of P.

```
1 #include<stdio.h>
2 int main(){
3     int n,rep,save,tot=0;
4     scanf("%d\n%d",&n,&rep);
5     for(int i=0;i<rep;i++){
6         save=200+n;
7         tot+=save;
8     }
9     printf("%d",tot);
10 }
```

	Input	Expected	Got	
✓	500 3	2100	2100	✓
✓	100 3	900	900	✓

Passed all tests! ✓

Two numbers M and N are passed as the input. A number X is also passed as the input. The program must print the numbers divisible by X from N to M (inclusive of M and N).

**Input Format:**

The first line denotes the value of M  
The second line denotes the value of N  
The third line denotes the value of X

**Output Format:**

Numbers divisible by X from N to M, with each number separated by a space.

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,m,x;
5     scanf("%d\n%d\n%d",&n,&m,&x);
6     while(m>=n){
7         if(m%x==0)
8             printf("%d ",m);
9         m--;
10    }
11 }
```

	Input	Expected	Got	
✓	2 40 7	35 28 21 14 7	35 28 21 14 7	✓

Passed all tests! ✓

Write a C program to find the biggest among the given 3 integers?

**For example:**

Input	Result
10 20 30	30

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c;
4     scanf("%d %d %d",&a,&b,&c);
5     if(a>b && a>c){
6         printf("%d",a);
7     }
8     else if(b>a && b>c){
9         printf("%d",b);
10    }
11    else{
12        printf("%d",c);
13    }
14 }
15
16
17 }
```

	Input	Expected	Got	
✓	10 20 30	30	30	✓

Passed all tests! ✓

Write a C program to find whether the given integer is odd or even?

**For example:**

Input	Result
12	Even
11	Odd

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     if(n%2==0){
6         printf("Even");
7     }
8     else{
9         printf("Odd");
10    }
11 }
```

	Input	Expected	Got	
✓	12	Even	Even	✓
✓	11	Odd	Odd	✓

Passed all tests! ✓



Write a C program to find the factorial of given n.

**For example:**

Input	Result
5	120

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,i,fact=1;
4     scanf("%d %d %d",&n,&i,&fact);
5     for(i=1;i<=n;i++){
6         fact*=i;
7     }
8     printf("%d",fact);
9 }
```

	Input	Expected	Got	
✓	5	120	120	✓

Write a C program to find the quotient and remainder of given integers.

**For example:**

Input	Result
12	4
3	0

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b;
4     scanf("%d %d",&a,&b);
5     printf("%d\n%d",a/b,a%b);
6 }
```

	Input	Expected	Got	
✓	12	4	4	✓
	3	0	0	

Passed all tests! ✓

