

You are given an integer n or -n .If you are given n , print n to -n , if you are given -n, print -n to n.

See the sample output for more clarification.

Sample Input : Sample Output :

5 4 3 2 1 0 -1 -2 -3 -4 -5

-4 -3 -2 -1 0 1 2 3 4



Print the following pattern	
For example n = 4	
**** *** ****	
Sample Input :	Sample Output :
5	**** **** ***** ****



You are given a positive integer n and after that a positive integer array of size n. Now print the sum of last digit of the given n integers.

Sample Input : Sample Output :

5 Sum = 12

22 44 143 101 12



You are given a string S .Remove all the repeated character from the given string. You can't change the order of the character in the time of printing. See the sample output for more clarification.	
Sample Input:	Sample Output:
dddaaabccdffgzzza	dabcdfgza



You are given a operator as a character + or - or * or / . You are also given two positive integers a and b after that. Now perform addition or subtraction or multiplication or division on the basis of the given input. You can subtract a-b or b-a ...similarly for others operators also.

Sample Input:	Sample Output :
*	

10 4



You are given a year, you need to tell whether the given year is a leap year or not. If the given year is a leap year print YES otherwise print NO.

Note - A leap year is a year, occurring once every four years, which has 366 days including 29 February as an intercalary day.

Sample Input 1: Sample Output 1:

2016 YES

Sample Input 2: Sample Output 2:

2017 NO

Sample Input 3: Sample Output 3:

2024 YES

<u>Codeforces Problem Link –</u>

- 1) https://codeforces.com/problemset/problem/1742/A
- 2) https://codeforces.com/problemset/problem/1204/B
- 3) https://codeforces.com/problemset/problem/369/A

```
// Problem 01
#include <stdio.h>
int main(){
  int N, i;
  scanf("%d", &N);
  if(N>0){
    for(i=N; i>=(N*-1); i--)
       printf("%d ", i);
  }
  else{
    for(i=N; i<=(N*-1); i++)
       printf("%d ", i);
  }
  return 0;
}</pre>
```

```
// Problem 04
#include <stdio.h>
int main(){
  int i;
  char str[100], cha;
  scanf("%s", &str);
  for(i=0; str[i]!= '\0'; i++){
    if(str[i] != cha){
      printf("%c", str[i]);
      cha = str[i];
    }
  }
  return 0;
}
```

```
// Problem 02
#include <stdio.h>
int main(){
   int N, i, j;
   scanf("%d", &N);
   for(i=1; i<=N; i++){
      for(j=i; j<N; j++){
        printf(" ");
      }
      for(j=1; j<=N; j++){
        printf("*");
      }
      printf("\n");
    }
    return 0;
}</pre>
```

```
// Problem 03
#include <stdio.h>
int main(){
   int N, i, sum=0;
   scanf("%d", &N);
   int arr[N];
   for(i=0; i<N; i++){
      scanf("%d", &arr[i]);
   }
   for(i=0; i<N; i++){
      sum += arr[i] % 10;
   }
   printf("Sum = %d", sum);
   return 0;
}</pre>
```

```
// Problem 05
#include <stdio.h>
int main(){
  char sign;
  scanf("%c", &sign);
  int a, b, num;
  scanf("%d %d", &a, &b);
  if(a > b){
     if(sign == '+')
       num = a + b;
     else if(sign == '-')
       num = a - b;
     else if(sign == '*')
       num = a * b;
     else if (sign == '/')
       num = a / b;
  }
  else{
     if(sign == '+')
       num = a + b;
     else if(sign == '-')
       num = b - a;
     else if(sign == '*')
       num = a * b;
     else if (sign == '/')
       num = b / a;
  printf("%d", num);
  return 0;
```

```
// Problem 06
#include <stdio.h>
int main(){
  int N;
  printf("Year = ");
  scanf("%d", &N);
  if((N%4 == 0 && N%100 != 0) || N%400 == 0)
     printf("YES");
  else
     printf("NO");
  return 0;
}
```

```
// Sum: Codeforces
#include <stdio.h>
int main(){
    int test_case, num1, num2, num3;
    scanf("%d", &test_case);
    while(test_case--){
        scanf("%d %d %d", &num1, &num2,
        &num3);
        if(num1+num2==num3 ||
        num1+num3==num2 || num2+num3==num1)
            printf("YES\n");
        else
            printf("NO\n");
        }
        return 0;
}
```

```
// Mislove has lost an array: Codeforces
#include<stdio.h>
int main(){
  int n,l,r,t,i,sum;
  scanf("%d %d %d",&n,&l,&r);

// Finding minimum
  t=1;
  sum=0;
  for(i=0; i<n; i++){
    sum=sum+t;
    if(i>=n-l)
        t=t*2;
  }
  printf("%d ",sum);
```

```
// Finding maximum
sum=0;
t=1;
for(i=0; i<n; i++){
    sum=sum+t;
    if(i<r-1)
        t=t*2;
}
printf("%d ",sum);
}</pre>
```

```
// Valera and Plates: Codeforces
#include<stdio.h>
int main(){
  int n,m,k,i,w=0;
  scanf("%d %d %d",&n,&m,&k);
  int a[1005];
  for(i=0; i<n; i++)
    scanf("%d",&a[i]);
  for(i=0; i<n; i++){
    if(a[i]==1 \&\& m!=0)
      m--;
    else if(a[i]==2 \&\& k!=0)
    else if(a[i]==2 && k==0 && m!=0)
    else if(a[i]==1 |  | a[i]==2 && (m==0 &&
k==0)
      w++;
  printf("%d\n", w);
  return 0;
```