WEEK - 1

Search:

1. You are given an integer array of size N and a key value X.You have to find whether the key is present in the array or not.if present print the index else print -1

constrains:

0<N<=50

Input format:

The first line contains two space separated integers n and x. Where n is the size of the array and x is the target element that is to be found.

The second line contains n space separated integers containing the array elements.

Output format:

The output should contain a single integer containing the index of the target element or -1 if not found.

Sample input:	**Sample output:**
6 7 1 3 5 6 7 9	4

Factorial

2. You are given a positive integer N .You have to find the factorial of the number.

constrains:

0<N<=50

Input format:

The input contains a single integer n.

Output format:

The output contains a single integer containing the factorial of ‘n’.

Sample input:	**Sample output:**
5	120

Even Array:

3. You are given an array of size N .You have to print the elements of the array in the Even index of the array.

constrains:

0<N<=50

Input format:

The first line of the input contains an integer ‘n’ denoting the size of the array.

The second line contains n space separated integers containing the array elements.

Output format:

The output should contain the elements that are present in the even index in the given array.

Sample input:	**Sample output:**
5	1 3 5
1 2 3 4 5	

Brake the number:

4. You are given a positive integer N .You have to find the one’s and tens's place digit of the number.

constrains:

0<=N<=999999999

Input format:

The input contains a single integer

Output format:

The output should contain the ones and tens digits.

Sample input:	**Sample output:**

789 9 8

Armstrong number:

5. Given an integer, find whether it is an armstrong number or not.

Armstrong number is *a number that is equal to the sum of cubes of its digits*. For example 0, 1, 153, 370, 371 and 407 are the Armstrong numbers.

153 = (1*1*1)+(5*5*5)+(3*3*3)
where:
(1*1*1)=1
(5*5*5)=125
(3*3*3)=27
So:
1+125+27=153

Input format:

The input contains a single integer

Output format:

The output contains true if the given number is an armstrong number else false.

Sample input:	**Sample output:**
371	true