

## Assignment 5

### Topic:-Array

**Q 10** Given an array of N integers and a target value, print the index if the target is found. If not, print the index where it would be if it were inserted in order. You may assume no duplicates in the array.

#### Input format:-

- n denoting size of an array.
- t denoting the target value
- Array of integers of size n.

#### Output format:-

Single integer denoting index

#### Constraint:-

$1 < N < 10^6$   
 $1 < t < 10^9$   
 $1 < A[i] < 10^9$

#### Example:

Input:

4

5

1 3 5 6

Output:

2

Input:-

4

2

1 3 5 6

Output:-

1

**Q.11 Given an array of N integers, find the contiguous subarray (containing at least one number) which has the largest sum and print its sum.**

**Input:**

- n denoting size of an array
- Array of characters of size n.

**Output:**

- Largest Sum

**Constraint:-**

$$0 < n < 10^6$$
$$-10^6 < A[n] < 10^6$$

**Sample Test Case 1:**

Input:

9

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

Output:

6

Explanation:

4, -1, 2, 1 has the largest sum = 6