

Problem B. Binary search on array

OS Linux

Given a sorted array of integers, search a given key in the array using binary search.

Note: Do not use any inbuilt functions/libraries for your main logic.

(Try to practice both iterative and recursive codes for Binary Search)

Input Format

First line of input contains two integers, N - size of the array and K - search key. Second line contains the elements of the sorted array.

Constraints

$$1 \leq N \leq 10^2$$

$$0 \leq \text{ar}[i] \leq 10^9$$

Output Format

Print "true" if key is present in the array, otherwise, print false.

Input	Output
5 19 2 19 23 35 38	true

Explanation 0

Self Explanatory