

GE23131-Programming Using C-2024

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Started	Monday, 13 January 2025, 8:16 PM
Completed	Monday, 13 January 2025, 8:41 PM
Duration	25 mins 16 secs

Question 1

Correct

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Given an array A of sorted integers and another non negative integer k , find if there exists 2 indices i and j such that $A[i] - A[j] = k, i \neq j$.

Input Format

1. First line is number of test cases T . Following T lines contain:

2. N , followed by N integers of the array

3. The non-negative integer k

Output format

Print 1 if such a pair exists and 0 if it doesn't.

Example

Input:

1
3 1 3 5
4

Output:

1

Input:

1