

# Hard to solve

You will be given an array of N integers and X integer. Write a recursive function to find if X is in the array or not.

## Input

Input starts with an integer T ( $T \leq 100$ ), the number of test cases.

Each of the next  $2 \cdot T$  lines will start with an integer N ( $1 \leq N \leq 100$ ), number of integers followed by N space separated. Each of these N integers will be between -1000 and 1000 (inclusive). Then next line will have X ( $-1000 \leq X \leq 1000$ ) representing the number you want to search for.

## Output

For each test case, output one line in the format "Case t: a", where t is the case number and a "YES" if you found X or "NO" if didn't found. (quotes for clarity).

## Example

**Input:**

```
2
5 5 13 -11 19 93
-19
3 15 65 -18
-18
```

**Output:**

```
Case 1: NO
Case 2: YES
```