

## Problem Statement

Sherlock is stuck. He has an array  $A_1, A_2, \dots, A_N$ . He wants to know if there exists a subset,  $B = \{A_{i_1}, A_{i_2}, \dots, A_{i_k}\}$  where  $1 \leq i_1 < i_2 < \dots < i_k \leq N$ , of this array which follows the property

- $B$  is non-empty subset.
- There exists no integer  $x (x > 1)$  which divides all elements of  $B$ . Note that  $x$  may or may not be an element of  $A$ .

## Input Format

First line contains  $T$ , the number of testcases. Each testcase consists of  $N$  in one line. The next line contains  $N$  integers denoting the array  $A$ .

## Output

Print **YES** or **NO**, if there exists any such subset or not, respectively.

## Constraints

$$1 \leq T \leq 10$$

$$1 \leq N \leq 100$$

$$1 \leq A_i \leq 10^5 \forall 1 \leq i \leq N$$

## Sample input

```
2
3
1 2 3
2
2 4
```

## Sample output

```
YES
NO
```

## Explanation

In first testcase,  $S = \{1\}, S = \{1, 2\}, S = \{1, 3\}, S = \{2, 3\}$  and  $S = \{1, 2, 3\}$  are all the possible subsets which satisfy the given condition.

In second testcase, no non-empty subset exists which satisfies the given condition.