

# Get Stronger

To shape his strength, Robert is doing weightlifting. His training set consists of  $n < 20$  weight plates:  $x_1, x_2, \dots, x_n$  ( $1 \leq x_i \leq 20$ ). Check, if he is able to compose a total weight of  $X$  with his training set.

## Input data specification

First, an integer  $t < 500$ , describing the number of test cases. Next, for each of the test cases:  $X, n$ , and  $n$  integers.

## Output data specification

For each of the test cases print one word: YES if Robert will be able to compose the required weight, or the word NO if this is impossible.

## Example

### Input:

```
4
5 3
2 1 3
18 3
11 10 9
5 4
1 2 1 6
23 5
11 1 2 10 18
```

### Output:

```
YES
NO
NO
YES
```

## Scoring

By solving this problem you score 10 points.