

4460 Rewards for Math!

My high school mathematics teacher was fond of challenging us to find as many distinct solutions of a given polynomial equation. There was a reward for the first pupil to report a correct solution, and a special reward for the pupil who declares that the last value has been reported. A polynomial of degree M has M solutions. Most pupils worked hard to quickly find any solution for the polynomial equation. However the clever ones aimed for solutions with multiplicity larger than one and thus got a shot at the special reward.

Your task is to write a program to check whether a given polynomial of degree M has M distinct, real or complex, solutions. The average students will greatly appreciate your help.

Input

The input starts with an integer N ($1 \leq N \leq 100$) on a separate line that represents the number of equations to be checked. The description of each equation is given on a single line as a series of integers, which are separated by single blank spaces. The first integer M ($0 \leq M \leq 10$) on each line represents the degree of the polynomial, followed by the $M + 1$ coefficients a_0, a_1, \dots, a_M ($-30 \leq a_i \leq 30, a_0 \neq 0$) to form the equation

$$\sum_{i=0..M} (a_i x^{M-i}) = 0.$$

Output

Output consists of a single line for each equation. It will be in one of the following two forms:

Yes! — when the equation has M distinct solutions.

No! — when the equation has less than M distinct solutions.

Sample Input

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

Sample Output

```
Yes!
No!
Yes!
No!
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