

DIVISION EXPRESSION (POLAND)

Division expression is an arithmetic expression of the form

$$x_1/x_2/x_3/.../x_k$$

where x_i is a positive integer, for $i, (1 \leq i \leq k)$. Division expression is evaluated from the left to the right. For instance the value of the expression

$$1/2/1/2$$

is $1/4$. One can put parentheses into expression in order to change its value. For example the value of the expression

$$(1/2)/(1/2)$$

is 1. We are given a division expression E . Is it possible to put some parentheses into E to get an expression E' whose value is an integer number.

Task: Write a program that for each data set from a sequence of several data sets:

- reads an expression E from the text file `DIV.IN`,
- verifies whether it is possible to put some parentheses in E to get a new expression E' whose value is an integer number,
- writes the result to the text file `DIV.OUT`

Input data: The first line of the file `DIV.IN` contains one positive integer $d, (d \leq 5)$. This is the number of data sets. The data sets follow. The first line of each data set contain an integer $n, (2 \leq n \leq 10000)$. This is the number of integers in the expression. Each of the following n lines contains exactly one positive integer not greater than 1 000 000 000. The i th number is the i th integer in the expression.

Output data: For each $i, (1 \leq i \leq d)$ your program should write to the i th line of the output file `DIV.OUT` one word YES, if the i th input expression can be transformed into an expression whose value is an integer number, and the word NO in the other case.

Example: For the input file `DIV.IN`:

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

the correct result is the output file `DIV.OUT`:

```
YES
NO
```