

## 1721 - Strange Dialog

### Description

One entity named "one" is talking with his friend "puton" and their conversation is interesting. "one" can say words "out" , "output" and "puton". "puton" can say words "in", "input" and "one". They understand each other perfectly and even write dialogues in strings without spaces. You have N strings. Find which of them are dialogues.

### Input specification

In the first line of input there is one non-negative integer **N**  $\leq 300$ . Next **N** lines contain non-empty strings. Each string consists of at most  $10^5$  small Latin letters.

### Output specification

Output consists of N lines. Line contains word "YES", if the string is a dialogue of "one" and "puton", otherwise "NO".

### Sample input

```
4
putonone
inoneputin
oneinininputwooutoutput
inputonoutput
```

### Sample output

```
YES
NO
NO
YES
```

### Hint(s)

Source

Timus Online Judge

Added by

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## Caribbean Online Judge

Addition date	2012-03-06
Time limit (ms)	1000
<b>Test limit (ms)</b>	1000
Memory limit (kb)	130000
Output limit (mb)	64
Size limit (bytes)	30000
Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text