

hai jolly jolly jolly

Alp and Gaut are like always opposite to each other. Once Alp told that he can identify a number which is divisible by 252 (He knows because that is his girlfriends birthday - 25/2). Now to come up against Alp, Gaut said he can identify whether the number is divisible by 525 (poor Gaut don't have a girl friend though). The truth is they don't know to do it for big numbers. So you are here to help them with a method. Given a number you have to tell whether the number is divisible by 252 and 525.

Input

Number of testcases in first line, T ($T \leq 100$).

Each line contains one number N, whose divisibility is to be tested ($1 \leq N \leq 10^{50000}$).

Output

Each line containing two Yes/No. one for 252 and one for 525.

Example

Input:

```
4
252
525
16884
21347
```

Output:

```
Yes No
No Yes
Yes No
No No
```