

I love Strings!!!

Hmmmmmm.....strings again :) Then it must be an easy task for you. Well.....you are given with a string **S** of length not more than 100,000 characters (only 'a' - 'z' and 'A' - 'Z'). Then follows **q** ($q < 1000$) queries where each query contains a string **T** of maximum length 1,000 (also contains only 'a' - 'z' and 'A' - 'Z'). You should determine whether or not **T** is a substring of **S**.

Input

First line contains an integer **k** ($k < 10$) telling the number of test cases to follow. Each test case begins with **S**. It is followed by **q**. After this line there are **q** lines each of which has a string **T** as defined before.

Output

For each query print 'y' if it is a substring of **S** or 'n' otherwise followed by a new line. See the sample output below.

Sample Input

```
2
abcdefghABCDEFGH
2
abc
abAB
xyz
1
xyz
```

Sample Output

```
y
n
y
```

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Modified from Uva 10679

Wow! CityU OJ reached #400 problem ID!!