

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 (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 have to determine whether or not  $T$  is a sub-string 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 sub-string of  $S$  or 'n' otherwise followed by a new line. See the sample output below.

## Sample Input

```
2
abcdefghABCDEFHG
2
abc
abAB
xyz
1
xyz
```

## Sample Output

```
y
n
y
```