Problem M. Codeforces Checking

Time limit   1000 ms
Mem limit   262144 kB

Given a lowercase Latin character (letter), check if it appears in the string `codeforces`.

Input

The first line of the input contains an integer t ($1 \leq t \leq 26$) — the number of test cases.

The only line of each test case contains a character c — a single lowercase Latin character (letter).

Output

For each test case, output `"YES"` (without quotes) if c satisfies the condition, and `"NO"` (without quotes) otherwise.

You can output the answer in any case (for example, the strings `"yEs"`, `"yes"`, `"Yes"` and `"YES"` will be recognized as a positive answer).

Examples

Input	Output
10 a b c d e f g h i j	NO NO YES YES YES YES NO NO NO NO