## At last, an interesting and difficult problem!            P69284_en

Here, we say that a natural $n$ is primeful if it is possible to obtain a prime number by deleting some (possibly none) digits from $n$.

For example, 6814 is primeful because deleting 8 and 4 results in 61, which is prime.

Given several $n$, can you determine whether they are primeful or not?

### Input

Input consists of several $n$, all between 1 and $10^{105} - 1$.

### Output

For every given $n$, tell if it is primeful or not.

| Sample input 1 | Sample output 1 |
| --- | --- |
| 6814 | yes |
| 1 | no |
| 9609 | no |
| 7 | yes |
| 77 | yes |
| 9088164 | yes |
| 444444444444444444 | no |
| 660000498 | yes |
| 90014 | yes |
| 46666669 | no |
| 60649 | yes |

### Problem information

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