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## Product of two primes

P80968\_en

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Write a program to tell if a given natural number is equal to the product of two different primes.

### Input

Input consists of several cases, each with a natural number  $n$  between 1 and  $10^9$ .

### Output

For every  $n$ , tell if it can be obtained as the product of two different primes.

### Observation

In this problem, you should not use vectors or alike.

### Sample input

```
1
2
4
6
17
18
30
49
323
100000000
999999991
999999937
```

### Sample output

```
1: no
2: no
4: no
6: yes
17: no
18: no
30: no
49: no
323: yes
100000000: no
999999991: yes
999999937: no
```

### Problem information

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