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Lucky numbers

Programmers like to play with lucky numbers. Lucky numbers are positive integers whose decimal representations only contain the digits 3, 5 and 7. For example, 235, 753, 2223 and 53227 are lucky numbers and 221, 47474 and 754223 are not.

A lucky number is called "cool" if it contains at least 2 twos in a row (like "35225"), at least 3 threes in a row (like "353333"), at least 5 fives in a row (like "55555237"), at least 7 sevens in a row (like "77777777"), or any combination of the above (like "333522227").

Your job is to write a program that will read a string S that consists of the digits 2, 3, 5 and 7 and question marks (?) and will output whether or not the question marks in S may be replaced with the digits 2, 3, 5 and 7 in order to get a cool number (each question mark can be replaced with only one digit).

Input

The first line of input contains the length L ($1 \leq L \leq 250$) of the string S . The second line contains the string S .

In test cases worth at least 30% of the full score, the string S will not contain any question marks ('?').

Output

Your program should output "cool" if the input string can become a cool number, or "boring" otherwise (quotes for clarity).

Constraints

Time limit: 1 second

Memory limit: 64 megabytes

Examples

```
input
8
233?5757
```

```
output
cool
```

```
input
10
57?5?757?3
```

```
output
boring
```

Feedback: During the contest, your submissions for this task will be evaluated on 50% of the official test cases. After the evaluation of a submission is done, you will be shown a summary of the results.

Submit Test

Submit your code

Solution language:

Automatic Detection...



Upload solution (option 1):

Select 

Paste your code (option 2):

 CodeMirror

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» This website (project) is dedicated to the memory of [Nikola Postolov](#) «