Challenge 2: Find out if the Given Number is Prime

Let's test our understanding by solving a simple challenge in this lesson.

Problem statement

In this challenge, you are given a number. Your task is to find whether the given number is prime or not.

> 📝 A number is prime if it is only divisible by `1` and itself.

> 📝 `1` is not a prime number, and `2` is the only even prime number.

Input

We have already initialized the variable `number` at the backend.

Output

- If the given `number` is prime, then you should print `prime` to the console.

- If the given `number` is not prime, then you should print `not prime` to the console.

Sample input

```
int number = 31;
```

Sample output

```
prime
```

Coding exercise

Before diving directly into the solution, first, try to solve it yourself, and then check if your code passes all the test cases. If you get stuck, you can always see the given solution.

> 📝 Please use the variable `number` for the input and print your output to the console; otherwise, your code will not execute.

Good Luck! 👍

```
/* We have already declared the input variable number at the backend.
int number;
Find whether the given number is prime or not, and then
print your output to the console
*/
// Write your code here
```

🎉If you have solved the problem, well done!

In case you are stuck, let's go over the solution review in the next lesson.