Exercises

Test yourself!

Question 1

Write a function that computes the nth [Fibonacci number](#). Your function should be called `fib` and should take as input a single integer value `n`, and should return an integer value representing the nth Fibonacci number.

Write your own function that doesn't use recursion, but uses a loop instead.

```
fib(10)=55
```

```
int fib(int n)
{
   //Write your code here...
}
```

Question

Write a function that determines whether an integer is [prime](#). The function should take as input a single integer, and return a 1 if the input is prime, and a 0 if it is not.

```
isprime(12)=0
isprime(17)=1
```

```
int isprime(int n)
{
```

```
  // your code goes here

}
```

Question

Write a program that returns the Nth prime number. You can find a list to verify the correctness of your program here.

```
1: 2
2: 3
3: 5
4: 7
5: 11
... (deleted for brevity) ...
996: 7879
997: 7883
998: 7901
999: 7907
1000: 7919
```

```
int getNthPrime(int term)
{
 //Write code here

}
```