

Practice S03P01: Prime Number

http://www.comp.nus.edu.sg/~cs1010/4_misc/practice.html

Reference: Week 4, Exercise #3

Week of release: Week 4

Objective: Repetition statement

Task statement:

Primality test is a classic programming problem:

- Given a positive integer, determine whether it is a prime
- A prime number has two distinct factors (divisors): 1 and itself. Examples: 2, 3, 5, 7, 11.
(Note that 1 is not a prime!)

Write a program **primeTest.c** to read in a positive integer and determine if it is prime.

The program should contain a function **is_prime(int)**. What is its return type?

Sample runs:

```
Enter a positive integer: 131
131 is a prime.
```

```
Enter a positive integer: 713
713 is not a prime.
```