Practice S03P04: Count number of primes

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

Reference: Week 4

Week of release: Week 4

Objective: Repetition statement

Task statement:

In Practice S03P01, you wrote a program to test whether a value is a prime. Your program contains the function **is_prime()**. You are to re-use this **is_prime()** function here.

Write a program **countPrimes.c** to read in a positive integer. Let's call it *limit*. Your program is to compute the number of primes from 1 through *limit* (inclusive).

For example, if *limit* = 10, then the answer is 4 (primes are 2, 3, 5 and 7).

Sample runs:

```
Enter limit: 10
Number of primes (1-10): 4

Enter limit: 99999
Number of primes (1-99999): 9592
```