

# CSE107 - Lab06 Task

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Write a C program that performs the task described below. Name your c file as nameSurnameId\_tasknumber.c [ex: seydanurAhi171561011\_1.c]

Upload your file to your section's submission page on moodle. There is also a submission page for the ones who are not belong to any section.

## 1 Task

The Fibonacci sequence is a series whose first two elements are 0 and 1, and each subsequent element equals the sum of the two preceding elements. There is a Fibonacci sequence sample below.

0 1 1 2 3 5 8 13 21 ...

Write a program that waits the user to enter a term number and prints the fibonacci numbers on the screen.

An example of the program:

Please enter how many terms you would like to print: 10

Top 10 terms: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34

## 2 Task

Write a program that waits the user to enter a number and prints whether the number is prime or not.

## 3 Task

A perfect number is a number whose sum of all positive divisors except itself is equal to itself.

For example 28 is the perfect number because  $28 = 1 + 2 + 4 + 7 + 14$ .

Write a program that waits for the user to enter a number and prints whether the number is a perfect number or not.

Good Luck 😊