

## Practice Exercise #40: Sum Digits in an Integer

[http://www.comp.nus.edu.sg/~cs1010/4\\_misc/practice.html](http://www.comp.nus.edu.sg/~cs1010/4_misc/practice.html)

**Reference:** Week 10 Lecture, Exercise #4

**Date of release:** 20 October 2014

**Objectives:** Recursion

### Task statement:

Write a program `sum_digits_recursion.c` to read a non-negative integer  $n$  and call a recursive function:

```
int sumDigits(int n)
```

to sum up the digits in  $n$ .

### Sample run:

Enter a non-negative integer: **970517**

Sum of its digits = 29