COMP 1510 Programming Methods Lab 03

Christopher Thompson
`cthompson98@bcit.ca`

BCIT CST — January 2022

Welcome!

Welcome to your third COMP 1510 lab.

For lab three, let's do something fun. Let's make a pair of flowcharts to practice using sequence, selection, repetition, and indirection.

1   Grading

Figure 1: This lab is graded out of 5

This lab will be marked out of 5.

2   Submission Requirements

1. **This lab is due before the end of our tutorial on Thursday this week.**

2. Late submissions will not be accepted for any reason.

3. **This is a collaborative lab**. I strongly encourage you to share ideas and concepts and help each other, but submit your own work on Thursday.

4. Submit your two PDFs to the Lab 03 folder in D2L (our course website).

3   Requirements

Please complete the following:

1. **Create a flowchart for a function called sum**. The sum function accepts a positive integer n and returns the sum of all the positive integers from 1 to n. For example, invoking sum(4) must return 10, which is $1 + 2 + 3 + 4$.

2. **Using a flowchart, prepare a peanut butter and jam sandwich for me**. I have two kinds of bread to choose from: green olive from Terra and a nice sour rye from the Polish deli around the corner. I usually choose between strawberry and grape jam. In order to apply the jam correctly, you must first add a small dollop to the sandwich and spread it around, and then ask me if I'd like another small dollop. If I say yes, add it and spread it around. Keep doing this until I say I don't want any more jam. Then apply the peanut butter in the same way. The peanut butter is always crunchy of course – what sort of barbarian do you think I am?!

That's it! Good luck, and see you soon!