PFII Lab 9: Recursion I

In this lab, I learned about basic recursion in C++ through mathematical functions with recursive function calls in their implementation. Key point of recursive iteration that I learned about is exiting the recursion at the base case and the portion that calls the function to repeat. For example, the base case of the Fibonacci function is that at n=0 or n=1, the Fibonacci number at that index is 1. The actual recursive step is the sum of the Fibonacci function for n-1 and n-2. In conclusion, this lab provided the basic knowledge of recursive iteration for application in specific functions/implementations.

Output:

Testing Factorial:

120

362880

Testing Fibonacci:

1

1

2

3

5

1

1

2

3

5

8

13

21

34

55

89

144

Testing Sort and Display:

17,21,25,69,144

1337