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**ME 557 Homework 2 Problem 1**

#include <iostream> instructs the preprocessor to include a section of standard C++ code which allows the standard input/output operations. “Using namespace std” links the standard library which allows the use of vectors and strings when declared. The function name FibonacciFunction is then defined and initializes as a double which allows more accuracy if it has decimal points. “I, j, t, n and k is then assigned as integers. For loop is then used and will be repeated for “n” times.

The next few lines are just summation and equation lines. “return j” outputs the value at the end of the function to the main function that called FibonacciFunction. After that int main(int argc, char \*argv[])” initliazes and runs the main function. “int p = FibonacciFunction(10) calls the FibonacciFunction with n = 10. The program then outputs the value of p with the command line “cout << p << endl;”

The main issue with the code is that the function “FibonacciFunction” must first be declared before the main program can be initialized. The overall functionality is to evaluate the ‘Nth’ sequence of the Fibonacci number sequence. The value stored in p is 144.