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Assignment 2 Part 1:

1.

* Line 1 includes C++’s standard library for input and output
* Line 2 declares uses of namespaces.
* Line 4 declares the main function. This is the first entry point of the program
* Line 6 declares an int, p, and calls the myFunction with argument 10 (int). The value returned by myFunction is a double which is automatically casted to an int, and assigned as the value of p.
* Line 7 calls the << operator on std::cout twice, once to output the p int, and once to output the newline character.
* Line 10 declares myFunction with input of an int n, and output of a double.
* Line 12 declares 4 int’s i, j, t, k and initializes i with 0, j with 1.
* Line 13 declares a loop that iterates n + 1 times by initializing k as 0, and incrementing k while checking whether k ≤ n (input value n).
* Line 15 adds i + j and assigns the value to t.
* Line 16 assigns the value of j to i.
* Line 17 assigns the value of t to j.
* Line 19 returns j after automatically casting it to double.

2. The program does not compile because myFunction needs to be deﬁned before it is called in main. Fixed this by moving the function to before main, Also, since there is no reason for myFunction to be declared with a double return type. Changed to int.

3. The function returns the (n+2)th number of the ﬁbonacci sequence. Thus, you could deﬁne it as ﬁbonacci(int);.

4. Integer value of 144 returned in p. It’s the 12th number of the ﬁbonacci sequence