

1. The mistake in the program is that the function was called before it was created. The function must be defined before it is called.

2. Code below:

```
#include <iostream> //provides proper definitions, includes "copy & paste" the content of a header file
using namespace std; //using the "std" namespace
```

```
//function call must occur after it has been defined
```

```
double myFibonacci(int n) //function entrance, definition of name, datatype, and input parameter (pass
arguments to function)
```

```
{
    unsigned int i = 0, j = 1, t, k; //'unsigned int' defined variables to be used within the function
    itself only
    for (k=0; k <= n; ++k) //for loop beginning at 0, while k is less than n, increasing by a value of k
    incrementally
    {
        t = i + j; //t begins with value of 1 (by i + j), increases by i + j each time
        i = j; //i begins with a value of 1 (by j)
        j = t; //j begins with a value of 1, increases by t (i+j) each time
    }
    return j; //returns a value to the user when the function is called
}
```

```
int main(int argc, char *argv[]) // program entry point, required for every program "main"
```

```
{
    int p = myFibonacci(10); // variable declaration with "int" defining the datatype as integer set
    equal to the return of the function "myFunction"
    cout << p << endl; //prints the output of "p", defined by the namespace "std"
}
```

3. The value returned for p is 144 (when n=10)