Lab 6: Pointers

For this lab you will need to write the code for (or explain why its not possible) three functions. The function prototypes and the main code that will call the functions is given below. Write the functions, if possible, so the code behaves as described by the comments in main.

```cpp
#include <iostream>
using namespace std;

void swap1(float &, float &); // swaps two floating point values
void swap2(float, float); // swaps two floating point values
void swap3(float *, float *); // swaps two floating point values

int main()
{
  float value1 = 2.7183;
  float value2 = 3.1416;
  cout << value1 << "," << value2 << endl; // prints 2.7183,3.1416
  swap1(value1, value2);
  cout << value1 << "," << value2 << endl; // prints 3.1416,2.7183
  swap2(value1, value2);
  cout << value1 << "," << value2 << endl; // prints 2.7183,3.1416
  swap3(&value1, &value2);
  cout << value1 << "," << value2 << endl; // prints 3.1416,2.7183
}

// Definitions (e.g. the code) for the three functions goes here

Turn in the code and output showing that it works. For any functions that can’t be written put a comment block in the code explaining why the function can’t be written.