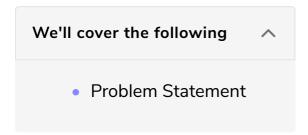
Exercise 2: Swapping Values

This exercise requires you to use template type to generalize the function used to swap two values



Problem Statement

In the code widget below, **two** functions both called swap_values are declared. One finds swaps values for int type inputs and the other for double type.

In this exercise, you need to define a **Template Class type** function called swap_values that will generalize the function such that it finds **swaps** values for both int and double type input values.

IMPORTANT NOTE: Remove both the <code>int</code> and <code>double</code> type <code>swap_values</code> functions and then write the code for the **Template Class type** <code>swap_values</code> function there.

Your template class type swap_values function code should swap two values.

• The function takes **two** values passed by reference and **swaps** them.

Down below is what the expected output should look like.

Your function will be tested on Inputs

```
int x1 = 2 , int y1 = 3, double x1 = 2.5 , double y2 = 3.5
```

Your function should swap the two int values and the two double values.

Here is what the output should look like in this case.

Expected Output:

The expected output will be displayed as a string with the swapped int values appended first and sorted double values appended after.

3 2 3.5 2.5

Write your code below. It is recommended that you try solving the exercise yourself before viewing the solution.

Good Luck!

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

void swap_values(int& v1, int& v2){
   //body of code
}

void swap_values(double& v1, double& v2){
   //body of code
}

//Code to test your code. You don't have to touch this part
string test(int v1, int v2, double v3, double v4){
   string str="";
   swap_values(v1,v2);
   swap_values(v1,v2);
   swap_values(v3,v4);
   str = to_string(v1) + " " + to_string(v2) + " " + to_string(v3) + " " + to_string(v4);
   return str;
}
```







