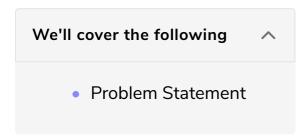
Exercise 3: Finding Index of Smallest Value

This exercise, requires you to find the index of the smallest value in an array using the concept of Templates



Problem Statement

In the code widget below, **two** functions both called <code>index_of_smallest</code> are declared. One finds **minimum** value index of an <code>int</code> type array and the other for <code>double</code> type.

In this exercise, you need to define a **Template Class type** function index_of_smallest that will generalize the function such that it finds **minimum** value index for both int and double type array input values.

IMPORTANT NOTE: Remove both the int and double type
index_of_smallest functions and then write the code for the Template Class
type index_of_smallest function there.

The function code for finding the **index** of the **smallest** value in an *array*:

- Takes three values:
 - Array of values
 - Start index value
 - Size of array

Down below is what the expected output should look like.

Input 1:

Input 2:

```
double array[] = {2.5,3.3,1.5,8.2,4.2}
```

Expected Output 1:

```
Index of smallest value is: 4
```

Expected Output 2:

```
Index of smallest value is: 2
```

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;

//define your template type function index_of_smallest here
int index_of_smallest(int a[], int start_index, int size)
{
    //body of code
}

int index_of_smallest(double a[], int start_index, int size)
{
    //body of code
}
```

