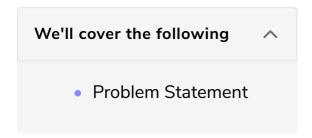
Exercise 1: Finding Max in an Array

This exercise requires you to use template type to generalize the function used to find max element in an array



Problem Statement

In the code widget below, **two** functions both called array_max are declared. One finds **max** value for int type inputs and the other for double type.

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

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

Your template class type array_max function code should find the **maximum** element in an array using

• Function will take the *array* and *array size* as parameters.

Down below is what the expected output should look like.

Input 1:

If input is:

```
int arr[] = {2,8,20,3,2};
```

Input 2:

If input is:

```
double arr[] = {2.8,20.3,20.4,15.5}
```

Expected Output 1:

20

Expected Output 2:

20.4

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

Good Luck!

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

//You need to write a function that uses Template Class type to
// write a single function that works for both int and double inputs
//remove the two functions below
//instead write a template class type array_max function that finds max value for either of the two
int array_max(int data[], int n){
   //body of code
}

double array_max(double data[], int n){
   //body of code
}
```







