Write a program to create an array of 50 elements, initialize each element ***random value (1 to 100).*** Find the ***location (index) of the largest value***. In the end, print both the index and largest value.

```cpp
#include <iostream>
using namespace std;
int main() {

	int i,maxindex=0,minindex=0;
	float  array[50], avg = 0.0, sum = 0.0, larg, small;
	for (i = 0; i < 50; i++) {
		//cin >> array[i];
		array[i] = rand() % 500;
		cout << "arr[" << i << "]:" << array[i] << endl;
		sum += array[i];
	}

	avg = sum / 50;
	cout << "\nThe Sum is:\t" << sum;
	cout << "\nThe Total Average is:\t" << avg;
	larg = array[0];

	for (i = 1; i < 50; i++) {
		if (larg < array[i])
		{
			larg = array[i];
			maxindex = i;
		}
	}
	avg = larg / 50;

	cout << "\narr["<<maxindex <<"]:" << larg;
	cout << "\nThe Largest Number Average is:\t" << avg;

	small = array[0];

	for (i = 1; i < 50; i++) {
		if (small > array[i])
		{
			small = array[i];
			minindex = i;
		}
	}
	avg = small / 50;
	cout << "\narr[" << minindex << "]:" << small;
	cout << "\nThe Smallest Number Average is:\t" << avg;

}
```