Write a program that creates an integer array having 50 elements. Then, ask the user to input values in the array. After that, find the largest number, smallest number in the and calculate the average of the values in the array.

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

	int i;
	float  array[50],avg=0.0,sum = 0.0, larg, small;
	for (i = 0; i < 50; i++) {
		//cin >> array[i];
		array[i] = rand() % 500 + 1;
		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];
		}
	}
	avg = larg / 50;

	cout << "\nThe Largest Number is:\t" << 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];
		}
	}
	avg = small / 50;
	cout << "\nThe Smallest Number is:\t" << small;
	cout << "\nThe Smallest Number Average is:\t" << avg;

}
```