

Answer on Question #47506 - Programming, C

Write a function, lastLargestIndex, that takes as parameters an int array and its size and returns the index of the last occurrence of the largest element in the array. Also, write a program to test your function.

Solution.

```
//Connecting library
#include <vector>
#include <iostream>

using namespace std;

int lastLargestIndex(int* arr, int size);
int main()
{
    int arr[]={1,58,54,5,8,3,58};

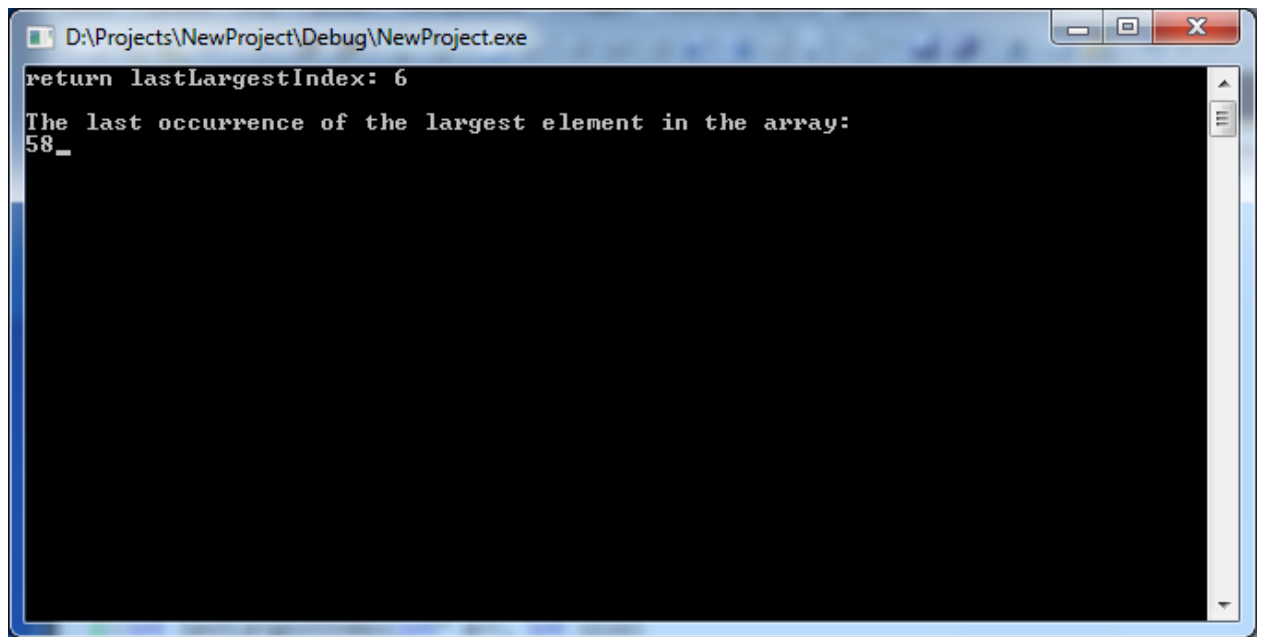
    int index=lastLargestIndex(arr,sizeof(arr)/sizeof(arr[0]));
    cout<<"return lastLargestIndex: "<<index<<endl<<endl;

    cout<<"The last occurrence of the largest element in the array:"<<endl;
    cout<<arr[index];

    //system("pause");
}

int lastLargestIndex(int* arr, int size)
{
    int buf=0,index=0;
    for(int i=0; i<size; i++)
    {
        if(buf<=arr[i]){ buf=arr[i]; index=i; }
    }

    return index;
}
```



A screenshot of a Windows command prompt window. The title bar at the top reads "D:\Projects\NewProject\Debug\NewProject.exe". The window has standard Windows window controls (minimize, maximize, close) on the right. The command prompt area is black with white text. The first line of output is "return lastLargestIndex: 6". The second line is "The last occurrence of the largest element in the array:". The third line is "58_". There is a vertical scrollbar on the right side of the command prompt area.

```
D:\Projects\NewProject\Debug\NewProject.exe  
return lastLargestIndex: 6  
The last occurrence of the largest element in the array:  
58_
```

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