

Lab #2:

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Section: BSSE-3A

Subject: Data Structure & Algorithm

**Code:**

#include<iostream>

using namespace std;

int maxValue(int a [], int l){

int max =0; //1

 for ( int i = 0 ;i<l; i++){   // n

    if(a[i] >max ){    // n

        max = a[i];

    }

 }

 return max; //1

}

int main(){

    int arr[5] = { 9,18,8,1,6};

    int result = maxValue(arr, 5);

    cout<<"Max "<<result<<endl;

    return 0 ;

}

**Time Complexity:**

**f**(n) =1 + n + n +1

**f**(n) = 2 + 2n

**f**(n) = n after Removing Constant values

**Big-O**(n)

**Output:**

