

# Northern Michigan University (Marquette Co, MI)

CS201-01-22F: Programming In C++ (Andrew A. Poe)  
Quiz 3

Name: \_\_\_\_\_  
Friday 23 September 2022 11:00 A.M. EDT

Time: 15 minutes.

Write the following method (not a whole program):

```
int SecondLargest (int *A, int Alen) { ... }
```

The method returns the second largest integer in the array of specified length. You may assume that the array has length of at least 2 and that there are no repeated values in the array.

For example, if the array were {1,3,7,6,0}, the method would return 6.

Your method should not print anything. It should return the answer.

```
int SecondLargest (int *A, int Alen) {  
  
    int lg = A[0];  
    for (int i=1; i < Alen; i++)  
        if (A[i] > lg) lg = A[i];  
    int slg = A[0];  
    if (lg==A[0]) slg = A[1];  
    for (int i=0; i < Alen; i++)  
        if (A[i]!=lg && A[i] > slg) slg = A[i];  
    return slg;  
}
```