

Northern Michigan University (Marquette Co, MI)
CS222-61-21W Computer Science I (Andrew A. Poe)

Quiz 2

Friday 5 February 2021 10:00 A.M. EST

Time: 10 minutes

Write a method in C++ (NOT a whole program)

```
void smallestpositive (int *A, int sz);
```

This method takes an array of int A of length sz and moves the smallest positive number to the last position in the array. The other numbers in the array must still be present, but I do not care what order they are in. If there are no positive numbers in the array, the method should change nothing, and you *must* check for this. For example, if the array were $\{4,-1,6,3,-2,0\}$, after the method is run, the array could be $\{4,-1,6,0,-2,3\}$.

Northern Michigan University (Marquette Co, MI)
CS222-61-21W Computer Science I (Andrew A. Poe)

Quiz 2

Friday 5 February 2021 10:00 A.M. EST

Time: 10 minutes

```
void smallestpositive (int *A, int sz) {  
  
    int first;  
    for (first=0; first < sz && A[first]<=0;first++);  
    if (first==sz) return;  
    int sm=first;  
    for (int i=first+1;i<sz;i++)  
        if (A[i] > 0 && A[i] < A[sm]) sm=i;  
    int t = A[sz-1];  
    A[sz-1]= A[sm];  
    A[sm] = t;  
}
```