

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

Quiz 1

Friday 29 January 2021 10:00 A.M. EST

Time: 10 minutes

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

```
void switchfirstandlast (string *A, int sz);
```

This method takes an array of string  $A$  of length  $sz$  and swaps the first and last strings in alphabetical order with each other in the array. (Note: you are swapping the first and last alphabetically, not necessarily the strings in the first and last positions). For example, if the array were  $\{Q,W,E,R,T,Y,U,I,O,P\}$ , after the method were run, the array would be  $\{Q,W,Y,R,T,E,U,I,O,P\}$ .

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```
void switchfirstandlast (string *A, int sz) {  
  
    if (sz==0) return;  
    int sm=0, lg=0;  
    for (int i=1; i < sz; i++) {  
        if (A[i] < A[sm]) sm = i;  
        if (A[i] > A[lg]) lg = i;  
    }  
    string t = A[sm];  
    A[sm] = A[lg];  
    A[lg] = t;  
}
```