

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

Practice Quiz 2

Thursday 4 February 2021 10:00 A.M. EST

Time: 10 minutes

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

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

This method takes an integer array A of size sz and moves all the negative numbers to the end. The relative order of the nonnegative integers and the relative order of the negative integers should remain unchanged. For example: if the original array were $\{1,4,-7,6,-9\}$, the array should become $\{1,4,6,-7,-9\}$.

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```
void MoveNegsToEnd (int *A, int sz) {  
  
    int *B = new int[sz];  
    int bct = 0;  
    for (int i=0; i < sz; i++)  
        if (A[i] >= 0) B[bct++] = A[i];  
    for (int i=0; i < sz; i++)  
        if (A[i] < 0) B[bct++] = A[i];  
    for (int i=0; i < sz; i++)  
        A[i] = B[i];  
    delete[] B;  
}
```