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**MULTIPLE-CHOICE QUESTIONS ON ARRAYS AND ARRAY LISTS**


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1. Which of the following correctly initializes an array `arr` to contain four elements each with value 0?

I `int[] arr = {0, 0, 0, 0};`  
 II `int[] arr = new int[4];`  
 III `int[] arr = new int[4];`  
     `for (int i = 0; i < arr.length; i++)`  
         `arr[i] = 0;`

- (A) I only  
 (B) III only  
 (C) I and III only  
 (D) II and III only  
 (E) I, II, and III
2. The following program segment is intended to find the index of the first negative integer in `arr[0] ... arr[N-1]`, where `arr` is an array of  $N$  integers.

```
int i = 0;
while (arr[i] >= 0)
{
    i++;
}
location = i;
```

This segment will work as intended

- (A) always.  
 (B) never.  
 (C) whenever `arr` contains at least one negative integer.  
 (D) whenever `arr` contains at least one nonnegative integer.  
 (E) whenever `arr` contains no negative integers.
3. Refer to the following code segment. You may assume that `arr` is an array of `int` values.

```
int sum = arr[0], i = 0;
while (i < arr.length)
{
    i++;
    sum += arr[i];
}
```

Which of the following will be the result of executing the segment?

- (A) Sum of `arr[0], arr[1], ..., arr[arr.length-1]` will be stored in `sum`.  
 (B) Sum of `arr[1], arr[2], ..., arr[arr.length-1]` will be stored in `sum`.  
 (C) Sum of `arr[0], arr[1], ..., arr[arr.length]` will be stored in `sum`.  
 (D) An infinite loop will occur.  
 (E) A run-time error will occur.

# Java Array Multiple Choice Questions And Answers

**AW Chickering**



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