```
Consider the following method.

public static int getValue(int[] data, int j, int k)
{
   return data[j] + data[k];
}
```

Which of the following code segments, when appearing in another method in the same class as getValue, will print the value 70 ?

```
    int arr = {40, 30, 20, 10, 0};
    System.out.println(getValue(arr, 1, 2));

    int[] arr = {40, 30, 20, 10, 0};
    System.out.println(getValue(arr, 1, 2));

    int[] arr = {50, 40, 30, 20, 10};
    System.out.println(getValue(arr, 1, 2));

    int arr = {40, 30, 20, 10, 0};
    System.out.println(getValue(arr, 2, 1));

    int arr = {50, 40, 30, 20, 10};
    System.out.println(getValue(arr, 2, 1));
```

```
Consider the following code segment.

boolean[] oldVals = {true, false, true, true};
boolean[] newVals = new boolean[4];
for (int j = oldVals.length - 1; j >= 0; j--)
{
    newVals[j] = !(oldVals[j]);
}
```

What, if anything, will be the contents of newVals as a result of executing the code segment?

- A. {true, true, false, true}
- B. {true, false, true, true}
- C. {false, true, false, false}
- D. {false, false, true, false}
- E. The array newVals will not contain any values because the code segment does not compile.

```
Consider the following code segment.

int[] arr = {3, 1, 0, 4, 2};
  for(int j = 0; j < arr.length; j++)
  {
    System.out.print(arr[j] + j + " ");
}</pre>
```

What, if anything, is printed as a result of executing the code segment?

- A. 31042
- B. 32276
- C. 62084
- D. 72362
- E. Nothing is printed, because an ArrayIndexOutOfBounds Exception is thrown.

```
Consider the following method.

public static void addOneToEverything(int[] numbers)
{
   for (int j = 0; j < numbers.length; j++)
   {
      numbers[j]++;
   }
}</pre>
```

Which of the following code segments, if any, can be used to replace the body of the method so that numbers will contain the same values?

```
I. II.
for (int num : numbers)
{
    num++;
}
for (int num : numbers)
{
    num[j]++;
}
    numbers
    inum[j]++;
}
III.
for (int num : numbers)
{
    num[j]++;
}
    inum[j]++;
}
```

- A. I only
- B. I and III only
- C. II and III only
- D. I, II, and III
- E. None of the code segments will return an equivalent result.

```
Consider the code segment below, where arr is a one-dimensional array of integers.

int sum = 0;
for (int n : arr)
{
   sum = sum + 2 * n;
}
System.out.print(sum);
```

Which of the following code segments will produce the same output as the code

```
int sum = 0:
         for (int k = 0; k < arr.length; k++)
A
          sum = sum + 2 * k;
         System.out.print(sum);
         int sum = 0;
         for (int k = 0; k \le arr.length; k++)
B
           sum = sum + 2 * k;
         System.out.print(sum);
         int sum = 0;
         for (int k = 1; k \leftarrow arr.length; k++)
©
          sum = sum + 2 * k;
         System.out.print(sum);
         int sum = 0; for (int k = 0; k < arr.length; k++)
D
          sum = sum + 2 * arr[k];
         System.out.print(sum);
         int sum = arr[0];
         for (int k = 1; k <= arr.length; k++)
E
           sum = sum + 2 * arr[k];
         System.out.print(sum);
```