

2023 AP Daily: Practice Sessions

AP Computer Science A

Session 8 – MCQ



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

1. Consider the code segment above.

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.

```

private ArrayList myData;
public void removeDups() {
    int k = 1;
    while (k < myData.size()) {
        if (myData.get(k).equals(myData.get(k-1))) {
            myData.remove(k);
        }
        k++;
    }
}

```

2. Consider the shown data field and method. The method `removeDups` is intended to remove all adjacent duplicate numbers from `myData` but does not work as intended. For example, if `myData` has the values 3 3 4 4 4 8 7 7 7, after calling `removeDups`, `myData` should have the values 3 4 8 7.

Assume that `myData` has the following values:

2 7 5 5 5 5 6 6 3 3 3

Which of the following represents `myData` after the incorrect `removeDups` is executed?

- A. 2 7 5 6 3
- B. 2 7 5 6 3 3
- C. 2 7 5 5 6 3 3
- D. 2 7 5 5 5 6 3 3
- E. 2 7 5 5 5 5 6 6 3 3

```
int[][] arr = {{1, 2, 3, 4},
               {5, 6, 7, 8},
               {9, 10, 11, 12}};
int sum = 0;
for (int[] x: arr)
{
    for (int y = 0; y < x.length-1; y++)
    {
        sum += x[y];
    }
}
```

3. Consider the code segment above.

What is the value of sum as a result of executing the code segment?

- A. 36
- B. 54
- C. 63
- D. 68
- E. 78