



## 2024 AP DAILY: PRACTICE SESSIONS

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### AP Computer Science A Session 1 – MCQ

1. Consider the following code segment.

```
double firstDouble = 2.5;  
int firstInt = 30;  
int secondInt = 5;  
double secondDouble = firstInt - secondInt / firstDouble + 2.5;
```

What value will be assigned to `secondDouble` when the code segment is executed?

- a. 5.0
- b. 12.5
- c. 25.5
- d. 29.0
- e. 30.5

2. A teacher put three bonus questions on a test and awarded 5 extra points to anyone who answered all three bonus questions correctly and no extra points otherwise. Assume that the boolean variables `bonusOne`, `bonusTwo`, and `bonusThree` indicate whether a student has answered the particular question correctly.

Each variable was assigned `true` if the answer was correct and `false` if the answer was incorrect.

Which of the following code segments will properly update the variable `grade` based on a student's performance on the bonus questions?

I. 

```
if (bonusOne && bonusTwo && bonusThree)
    grade += 5;
```

II. 

```
if (bonusOne || bonusTwo || bonusThree)
    grade += 5;
```

III. 

```
if (bonusOne)
    grade += 5;
if (bonusTwo)
    grade += 5;
if (bonusThree)
    grade += 5;
```

- a. I only
  - b. II only
  - c. III only
  - d. I and III
  - e. II and III
3. Consider the following code segment.

```
int k = 0;
while (k < 10)
{
    System.out.print((k % 3) + " ");
    if ((k % 3) == 0)
        k = k + 2;
    else
        k++;
}
```

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

- a. 0 2 1 0 2
- b. 0 2 0 2 0 2
- c. 0 2 1 0 2 1 0
- d. 0 2 0 2 0 2 0
- e. 0 1 2 1 2 1 2