

2023 AP Daily: Practice Sessions

AP Computer Science A

Session 1 – MCQ



```
public static int calculate (int x)
{
    x = x + x;
    x = x + x;
    x = x + x;
    return x;
}
```

1. Consider the static method above. Which of the following can be used to replace the body of `calculate` so that the modified version of `calculate` will return the same result as the original version for all `x`?
 - A. `return 3 + x;`
 - B. `return 3 * x;`
 - C. `return 4 * x;`
 - D. `return 6 * x;`
 - E. `return 8 * x;`

```

public static void whatIsIt(int a, int b)
{
    if ((a < b) && (a > 0)) {
        System.out.print("W");
    } else if (a == b) {
        if (b > 0) {
            System.out.println("X");
        } else if (b < 0) {
            System.out.println("Y");
        } else {
            System.out.println("Z");
        }
    }
}

```

2. Consider the static method above. Which of the following method calls will cause "W" to be printed?

I. whatIsIt(10, 10)
 II. whatIsIt(-5, 5)
 III. whatIsIt(7, 10)

- A. I only
 B. II only
 C. III only
 D. I and III
 E. II and III

```

int a = 24;
int b = 30;
while (b != 0)
{
    int r = a % b;
    a = b;
    b = r;
}
System.out.println(a);

```

3. Consider the code segment above. What is printed as a result of executing the code segment?
- A. 0
 B. 6
 C. 12
 D. 24
 E. 30