

2023 AP Daily: Practice Sessions

AP Computer Science A

Session 4 – MCQ



```
public void changer(String x, int y)
{
    x = x + "peace";
    y = y * 2;
}
public void test()
{
    String s = "world";
    int n = 6;
    changer(s, n);
    /* End of Method */
}
```

1. Consider the methods shown above. When the call `test()` is executed, what are the values of `s` and `n` at the point indicated by `/* End of Method */` ?
 - A. `s` has a value of `world`
`n` has a value of `6`
 - B. `s` has a value of `worldpeace`
`n` has a value of `6`
 - C. `s` has a value of `world`
`n` has a value of `12`
 - D. `s` has a value of `worldpeace`
`n` has a value of `12`
 - E. `s` has a value of `peace`
`n` has a value of `12`

```

public class Food
{ /* implementation not shown */ }

public class Snack extends Food
{ /* implementation not shown */ }

public class Pizza extends Snack
{ /* implementation not shown */ }

```

2. Consider the class declarations shown. Assume that each has a no-argument constructor. Which of the following declarations will compile without an error?

- A. `Food tacos = new Snack();`
- B. `Pizza cheesePizza = new Snack();`
- C. `Pizza sausagePizza = new Food();`
- D. `Snack pretzel = new Food();`
- E. `String Snack = new Pizza();`

```

public static int mystery(ArrayList<Integer> numList)
{
    if (numList.size() == 0)
    {
        return 0;
    }
    else
    {
        int val = numList.remove(0);
        return val + mystery(numList);
    }
}

```

3. Consider the method shown. Which of the following best describes the value returned by the method?
- A. It returns the value of the first element in `numList`.
 - B. It returns the value of the last element in `numList`.
 - C. It returns the sum of the elements in `numList`.
 - D. It returns 0 regardless of the contents of `numList`.
 - E. It returns nothing due to infinite recursion.