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1. Choose the correct option to complete lines 3 and 4 such that str2 will contain the letters of str1 in reverse order.

```
String str1 = "banana";
String str2 = "";
// 3. missing code
// 4. missing code
{
    str2 += str1.substring(i, i + 1);
    i--;
}
System.out.println(str2);
```

```
(A) int i = 0;
    while(i<str1.length);
(B) int i = str1.length();
    while (i >=0);
(C) int i = str1.length() - 1;
    while (i >=0);
(D) int i = str1.length();
    while (i>0);
(E) int i = str1.length() - 1;
    while (i>0)
```

2. Consider the following code excerpt:

- (A) \$n^n\$
- (B) \$n^2-1\$
- $(C) (n-1)^2$
- (D) n(n-1)
- (E) \$n^2\$
- 3. Given the following code excerpt, determine the output:

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```
int x = 0;
for (int j = 1; j < 4; j++) {
   if (x != 0 && j / x > 0)
        System.out.print(j / x + " ");
   else
        System.out.print(j * x + " ");
}
```

```
(A) 0 0 0

(B) 0 0 0 0

(C) 1 2 3

(D) 1 0 2 0 3 0

(E) ArithmeticException: Divide by zero
```

## 4. Consider the following code:

```
String space = " ";
String symbol = "*";
int num = 5;
for (int i = 1; i <= num; i++) {
    System.out.print(symbol);
}
System.out.println();
for (int i = 1; i <= num; i++) {
    for (int j = num - i; j > 0; j--) {
        System.out.print(space);
    }
    System.out.println(symbol);
}
for (int i = 1; i <= num; i++) {
    System.out.print(symbol);
}</pre>
```

```
(A) *****

***

**

**

(B) ****

**

**

**

**

(C) *****
```

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5. What will be printed as a result of the following code excerpt?

```
int sum = 0;
for (int i=1; i<2; i++)
    for(int j=1; j<=3; j++)
        for(int k=1; k<4; k++)
        sum += (i*j*k);
System.out.println(sum);</pre>
```

```
(A) 18
(B) 36
(C) 45
(D) 60
(E) 108
```