Problems on loops-2

MCQs







```
Q1. Which of the following code segments will produce the displayed output?
1
22
333
4444
55555
I. for (int i = 1; i <= 5; i++) {
     for (int j = i; j > 0; j--) {
      System.out.print(i);
     System.out.println();
II. for (int i = 0; i < 5; i++) {
    for (int j = 0; j < i; j++) {
      System.out.print(i);
     System.out.println();
III. for (int i = 1; i < 5; i++) {
    for (int j = i; j > 0; j--) {
      System.out.print(i);
     System.out.println();
IV. for (int i = 0; i < 5; i++) {
    for (int j = 0; j < i; j++) {
      System.out.print(i+1);
     System.out.println();
A. I
                                                          B. II
C. III
                                                          D. IV
```



Q2. Which of the following code segments will produce the displayed output?

11111 2222 333 44 5 I. for (int j = 1; j < = 5; j++) { for (int k = 5; k > = j; k--) { System.out.print(j + " "); System.out.println(); II. for (int j = 1; j <= 5; j++) { for (int k = 5; $k \ge 1$; k--) { System.out.print(j + " "); System.out.println(); III. for (int j = 1; j <= 5; j++) { for (int k = 1; $k \le j$; k++) { System.out.print(j + " "); System.out.println(); IV. for (int j = 1; j < = 5; j++) { for (int k = 1; k <= 5; k++) { System.out.println(j + " "); } }

B. II D. IV



```
Q3. How many stars are output when the following code is executed?
for (int i = 0; i < 5; i++) {
 for (int j = 0; j < 5; j++)
  System.out.println("*");
}
A. 10
                                                       B. 5
C. 25
                                                       D. 50
Q4. What is printed as a result of the following code segment?
for (int k = 0; k < 20; k+=2) {
 if (k \% 3 == 1)
   System.out.println(k + " ");
}
A. 0 2 4 6 8 10 12 14 16 18
                                                       B. 416
C. 0 6 12 18
                                                       D. 4 10 16
Q5. What are the values of var1 and var2 after the following code segment is executed and the while
loop finishes?
int var1 = 0;
int var2 = 2;
while ((var2 != 0) \&\& ((var1 / var2) >= 0)) {
 var1 = var1 + 1;
 var2 = var2 - 1;
}
A. var1 = 0, var2 = 2
                                                       B. var1 = 1, var2 = 1
C. var1 = 3, var2 = -1
                                                       D. var1 = 2, var2 = 0
Answers:
Ans 1: A. I
Ans 2: A. I
Ans 3: C. 25
Ans 4: D. 4 10 16
Ans 5: D. var1 = 2, var2 = 0
```