

Arrays

Workbook

Answer the following

1. What would be the output of the below code?

```
class SampleCodeA {
    public static void main(String[] args) {
        int[] a = new int[10];
        System.out.println(a.length);
        System.out.println(a[5]);
}
```

2. What would be the output of the below code?

```
class SampleCodeB {
    public static void main(String[] args) {
        int[] a = new int[10];
        for (int i = 0; i < 10; i++) {
            a[i] = i * i;
        }
        for (int i = 0; i < 10; i++) {
            System.out.println(a[i]);
        }
    }
}</pre>
```

3. What would be the output of the below code?

```
class SampleCodeC {
   public static void main(String[] args) {
      int[] a = {10, 20, 30, 40, 50};

   int[] b = a;

   for (int i = 0; i < 5; i++) {
      System.out.println(b[i]);
}</pre>
```



```
}
4. What would be the output of the below code and explain your under-
  standing?
   class SampleCodeD {
       public static int xyz(int[] b) {
2
            int r = 0;
3
            for (int i = 0; i < b.length; i++) {
                if (b[i] \% 2 = 0)
                     r += b[i];
           return r;
       public static void main(String[] args) {
10
            int [] a = \{33, 44, 54, 65, 67, 93, 246, 84, 20, 10, 26\};
            System.out.println(xyz(a));
12
13
  }
14
5. What would be the output of the below code?
   class SampleCodeE {
       public static void main(String[] args) {
            int table [][] = new int [3][3];
            for(int i = 0; i < 3; i++) {
                for (int j = 0; j < 3; j++) {
                     if (j == i)
                         table[i][j] = 1;
                     else
                         table[i][j] = 0;
                }
10
11
            for (int i = 0; i < 3; i++) {
12
                for (int j = 0; j < 3; i++) {
13
```

14

System.out.print(table[i][j] + " ");



```
15
                 System.out.println();
16
            }
17
       }
18
19
6. What would be the output of the below code?
   class SampleCodeF {
       public static void main(String[] args) {
            int [][] a = \{\{1,2,3\},\{4,5,6\},\{7,8,9\}\};
            for (int i = 0; i < a.length; i++) {
                 for (int j = 0; j < a.length; j++) {
                     System.out.print(a[i][j] + " ");
                 System.out.println();
            }
       }
10
   }
11
7. What would be the output of the below code?
   class SampleCodeG {
       public static void main(String[] args) {
            \mathbf{int} [][] m = \{\{1\}, \{1,2\}, \{1,2,3\}, \{1,2,3,4\}, \{1,2,3,4,5\}\};
            for (int i = 0; i < m. length; i++) {
                 for (int j = 0; j < m[i].length; j++) {
                     System.out.print(m[i][j]);
                 System.out.println();
            }
       }
10
   }
11
```

8. What would be the output of the below code?

