

Started on	Wednesday, 4 February 2026, 4:26 PM
State	Finished
Completed on	Wednesday, 4 February 2026, 4:39 PM
Time taken	13 mins 11 secs
Marks	17.00/20.00
Grade	85.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

```
3: byte a = 40, b = 50;  
4: byte sum = (byte) a + b;  
5: System.out.println(sum);
```

- ☐ a. 90
- ☒ b. The code will not compile because of line 4.
- ☐ c. An undefined value.
- ☐ d. 50
- ☐ e. 40

Question 2

Complete

Mark 1.00 out of 1.00

What is the output of the following code snippet?

```
3: boolean x = true, z = true;  
4: int y = 20;  
5: x = (y != 10) ^ (z=false);  
6: System.out.println(x + ", " + y + ", " + z);
```

- ☐ a. The code will not compile because of line 5.
- ☐ b. false, 20, true
- ☐ c. false, 20, false
- ☒ d. true, 20, false
- ☐ e. false, 20, true
- ☐ f. true, 10, true

Question 3

Complete

Mark 1.00 out of 1.00

Which of the following are true? (Choose all that apply)

```
public class Bunny {  
    public static void main(String[] args) {  
        Bunny bun = new Bunny();  
    }  
}
```

- ☐ a. main is a class.
- ☐ b. Bunny is a reference to an object.
- ☐ c. bun is a class.
- ☒ d. Bunny is a class.
- ☒ e. bun is a reference to an object.
- ☐ f. main is a reference to an object.
- ☐ g. None

Question 4

Complete

Mark 0.00 out of 1.00

Which statements about switch are correct?

- ☒ a. Cases must be constant expressions.
- ☒ b. switch can take String values.
- ☐ c. switch requires a default case.
- ☐ d. break is necessary to prevent fall-through.

Question 5

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

```
1: public class TernaryTester {  
2:     public static void main(String[] args) {  
3:         int x = 5;  
4:         System.out.println(x > 2 ? x < 4 ? 10 : 8 : 7);  
5:     }  
}
```

- ☐ a. 5
- ☒ b. 8
- ☐ c. 7
- ☐ d. 4
- ☐ e. 10
- ☐ f. The code will not compile because of line 4.

Question 6

Complete

Mark 1.00 out of 1.00

Given:

```
3. public class Wind {  
4.     public static void main(String[] args) {  
5.         foreach:  
6.         for(int j=0; j<5; j++) {  
7.             for(int k=0; k< 3; k++) {  
8.                 System.out.print(" " + j);  
9.                 if(j==3 && k==1) break foreach;  
10.                if(j==0 || j==2) break;  
11.            }  
12.        }  
13.    }  
14. }
```

What is the result?

- ☐ a. Compilation fails
- ☒ b. 0 1 1 1 2 3 3
- ☐ c. 0 1 1 1 2 3 3 4 4 4
- ☐ d. 1 1 1 3 3
- ☐ e. 0 1 2 3
- ☐ f. 1 1 1 3 3 4 4 4

Question 7

Complete

Mark 1.00 out of 1.00

What is the output of the following code snippet?

```
3: int x = 4;  
4: long y = x * 4 - x++;  
5: if(y<10) System.out.println("Too Low");  
6: else System.out.println("Just right");  
7: else System.out.println("Too High");
```

- ☐ a. Just Right
- ☐ b. Compiles but throws a NullPointerException.
- ☒ c. The code will not compile because of line 7
- ☐ d. Too Low
- ☐ e. The code will not compile because of line 6.
- ☐ f. Too High

Question 8

Complete

Mark 0.00 out of 1.00

Given the following class,

which of the following lines of code can replace INSERT CODE HERE to make the code compile? (Choose all that apply)

```
public class Price {  
    public void admission() {  
        INSERT CODE HERE  
        System.out.println(amount);  
    }  
}
```

- ☒ a. int amount = 0xE;
- ☐ b. int amount = 9L;
- ☐ c. int amount = 1_2_;
- ☒ d. double amount = 0xE;
- ☒ e. int amount = 0b101;
- ☐ f. None
- ☒ g. double amount = 1_2_0_0;

Question 9

Complete

Mark 1.00 out of 1.00

Given:

```
class Hexy {  
    public static void main(String[] args) {  
        Integer i = 42;  
        String s = (i<40)?"life": (i>50)?"universe":"everything";  
        System.out.println(s);  
    }  
}
```

What is the result?

- ☐ a. Compilation fails
- ☐ b. life
- ☐ c. universe
- ☐ d. null
- ☒ e. everything
- ☐ f. An exception is thrown at runtime

Question 10

Complete

Mark 1.00 out of 1.00

How many times will the following code print "Hello World"?

```
3: for(int i=0; i<10 ; ) {  
4:  i = i++;  
5:  System.out.println("Hello World");  
6: }
```

- ☐ a. The code will not compile because of line 3.
- ☐ b. The code will not compile because of line 5.
- ☐ c. 10
- ☐ d. 9
- ☒ e. The code contains an infinite loop and does not terminate.
- ☐ f. 11

Question 11

Complete

Mark 1.00 out of 1.00

Given:

```
class Fork {  
  
    public static void main(String[] args) {  
        if(args.length == 1 | args[1].equals("test")) {  
            System.out.println("test case");  
        } else {  
            System.out.println("production " + args[0]);  
        }  
    }  
}
```

And the command-line invocation:

```
java Fork live2
```

What is the result?

- ☐ a. test case
- ☒ b. An exception is thrown at runtime
- ☐ c. production live2
- ☐ d. Compilation fails
- ☐ e. test case live2

Question 12

Complete

Mark 1.00 out of 1.00

What will be the output of the following code?

```
int a = 5;  
  
System.out.println(a++ + ++a);
```

- ☒ a. 12
- ☐ b. Compilation error
- ☐ c. 13
- ☐ d. 11

Question 13

Complete

Mark 1.00 out of 1.00

What is the output of the following code snippet?

```
3: boolean keepGoing = true;
4: int result = 15, i = 10;
5: do {
6:   i--;
7:   if(i==8) keepGoing = false;
8:   result -= 2;
9: } while(keepGoing);
10: System.out.println(result);
```

- ☒ a. 11
- ☐ b. 7
- ☐ c. 10
- ☐ d. The code will not compile because of line 8.
- ☐ e. 15
- ☐ f. 9

Question 14

Complete

Mark 0.00 out of 1.00

Given:

```
4. public class SpecialOps {
5.   public static void main(String[] args) {
6.     String s = "";
7.     Boolean b1 = true;
8.     Boolean b2 = false;
9.     if((b2 = false) | (21%5) > 2) s += "x";
10.    if(b1 || (b2 = true))      s += "y";
11.    if(b2 == true)            s += "z";
12.    System.out.println(s);
13.  }
14. }
```

Which are true? (Choose all that apply.)

- ☐ a. z will be included in the output
- ☐ b. An exception is thrown at runtime
- ☒ c. y will be included in the output
- ☒ d. x will be included in the output
- ☐ e. Compilation fails

Question 15

Complete

Mark 1.00 out of 1.00

What is the output of the following code snippet?

- ```
3: int x = 0;
4: String s = null;
5: if(x == s) System.out.println("Success");
6: else System.out.println("Failure");
```
- ☐ a. Failure
  - ☐ b. Success
  - ☐ c. The code will not compile because of line 4.
  - ☒ d. The code will not compile because of line 5.

**Question 16**

Complete

Mark 1.00 out of 1.00

What is the output of the following code snippet?

- ```
3: int x1 = 50, x2 = 75;
4: boolean b = x1 >= x2;
5: if(b = true) System.out.println("Success");
6: else System.out.println("Failure");
```
- ☒ a. Success
 - ☐ b. The code will not compile because of line 4.
 - ☐ c. The code will not compile because of line 5.
 - ☐ d. Failure

Question 17

Complete

Mark 1.00 out of 1.00

Given:

- ```
1. class Loopy {
2. public static void main(String[] args) {
3. int[] x = {7,6,5,4,3,2,1};
4. // insert code here
5. System.out.print(y + " ");
6. }
7. }
```

Which, inserted independently at line 4, compiles? (Choose all that apply.)

- ☒ a. for(int y : x) {
- ☐ b. for(int y=0, int z=0; z<x.length; z++) { y = x[z];
- ☐ c. for(x : int y) {
- ☐ d. int y = 0; for(y : x) {
- ☒ e. int y = 0; for(int z=0; z<x.length; z++) { y = x[z];
- ☒ f. for(int y=0, z=0; z<x.length; z++) { y = x[z];

**Question 18**

Complete

Mark 1.00 out of 1.00

Given:

```
3. public class Ebb {
4. static int x = 7;
5. public static void main(String[] args) {
6. String s = "";
7. for(int y = 0; y < 3; y++) {
8. x++;
9. switch(x) {
10. case 8: s += "8 ";
11. case 9: s += "9 ";
12. case 10: { s += "10 "; break; }
13. default: s += "d ";
14. case 13: s += "13 ";
15. }
16. }
17. System.out.println(s);
18. }
19. static { x++; }
20. }
```

What is the result?

- ☒ a. 9 10 10 d 13
- ☐ b. 8 9 10 10 d 13
- ☐ c. 9 10 10 d
- ☐ d. 9 10 d
- ☐ e. Compilation fails
- ☐ f. 8 9 10 9 10 10 d 13
- ☐ g. 8 9 10 d



**Question 19**

Complete

Mark 1.00 out of 1.00

What is the result of the following code snippet?

```
3: final char a = 'A', d = 'D';
4: char grade = 'B';
5: switch(grade) {
6: case a:
7: case 'B': System.out.print("great");
8: case 'C': System.out.print("good"); break;
9: case d:
10: case 'F': System.out.print("not good");
11: }
```

- ☐ a. great
- ☒ b. greatgood
- ☐ c. The code will not compile because of line 3.
- ☐ d. The code will not compile because of line 6.
- ☐ e. The code will not compile because of lines 6 and 9.

**Question 20**

Complete

Mark 1.00 out of 1.00

What will be the output of the following program?

```
int a = 10, b = 20, c = 30;
System.out.println(a > b ? a : b > c ? b : c);
```

- ☐ a. 20
- ☒ b. 30
- ☐ c. 10
- ☐ d. Compilation error