



Java Quiz: Chapter 5

Guidelines: Answer the questions below by ticking the box next to the correct response(s) to each question. Be sure to check your answers to ensure that they are correct.

1. Which code statement below is the same as `i++`;

Choose one answer.

- ☐ A. `i = 1;`
☐ B. `i = i;`
☒ C. `i = i + 1;`
☐ D. `i + 1;`

2. What would be the output of this statement?

```
for(int i = 0; i < 4; i++){  
    System.out.println("5");  
}
```

Choose one answer.

- | | | | |
|-------------------------------|--|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. 0 | <input checked="" type="checkbox"/> B. 5 | <input type="checkbox"/> C. 0 | <input type="checkbox"/> D. 1 |
| 1 | 5 | 1 | 2 |
| 2 | 5 | 2 | 3 |
| 3 | 5 | 3 | 4 |
| | | 4 | |

3. What is the 'fancy' name for a loop?

Choose one answer.

- ☐ A. Concatenation
☐ B. Loopenation
☐ C. Selection
☒ D. Iteration

4. What would be the output of this statement?

```
for(int i = 0; i < 4; i++){  
    System.out.println("i*2");  
}
```

Choose one answer.

- | | | | |
|-------------------------------|-------------------------------|--|-------------------------------|
| <input type="checkbox"/> A. 0 | <input type="checkbox"/> B. 2 | <input checked="" type="checkbox"/> C. i*2 | <input type="checkbox"/> D. i |
| 2 | 2 | i*2 | i |
| 4 | 2 | i*2 | i |
| 6 | 2 | i*2 | i |

5. What would be the output of this statement?

```
for(int i = 0; i < 4; i++){
    System.out.println(i + " + " + 5);
}
```

Choose one answer.

- | | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|--|
| <input type="checkbox"/> A. i + 5 | <input type="checkbox"/> B. 0 + 5 | <input type="checkbox"/> C. i + 5 | <input checked="" type="checkbox"/> D. 0 + 5 |
| i + 5 | 1 + 6 | i + 6 | 1 + 5 |
| i + 5 | 2 + 7 | i + 7 | 2 + 5 |
| i + 5 | 3 + 8 | i + 8 | 3 + 5 |

6. What would be the output of this statement?

```
for(int i = 0; i < 4; i++){
    System.out.println("i + 4 =" + (i+4));
}
```

Choose one answer.

- | | | | |
|--|---------------------------------------|---|---|
| <input checked="" type="checkbox"/> A. i + 4 = 4 | <input type="checkbox"/> B. 0 + 4 = 4 | <input type="checkbox"/> C. i + 4 = i + 4 | <input type="checkbox"/> D. i + 4 = i + |
| i + 4 = 5 | 1 + 4 = 5 | i + 4 = i + 5 | i + 4 = i + 4 |
| i + 4 = 6 | 2 + 4 = 6 | i + 4 = i + 6 | i + 4 = i + 4 |
| i + 4 = 7 | 3 + 4 = 7 | i + 4 = i + 7 | i + 4 = i + 4 |

7. What would be the output of this statement?

```
int x = 1;
while(x < 5){
    System.out.println(x);
    x = x + 1;
}
```

Choose one answer.

- | | | | |
|--|-------------------------------|-------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> A. 1 | <input type="checkbox"/> B. x | <input type="checkbox"/> C. 1 | <input type="checkbox"/> D. x |
| 2 | x | 2 | x |
| 3 | x | 3 | x |
| 4 | x | 4 | x |
| | | 5 | x |

8. What would be the output of this statement?

```
int x = 1;
while(x < 5){
    System.out.println(x);
    if(x == 2){
        System.out.println("YAY");
    }
    x = x + 1;
}
```

Choose one answer.

- | | | | |
|-------------------------------|-------------------------------|--|-------------------------------|
| <input type="checkbox"/> A. 1 | <input type="checkbox"/> B. 1 | <input checked="" type="checkbox"/> C. 1 | <input type="checkbox"/> D. 1 |
| 2 | YAY | 2 | YAY |
| 3 | 3 | YAY | 2 |
| 4 | 4 | 3 | 3 |
| | | 4 | 4 |

9. Which of the following is NOT an advantage of using loops?

Choose one answer.

- ☐ A. Loops can reduce the number of LOC (Lines Of Code) needed
- ☐ B. Loops allow adaptive algorithms to be written
- ☒ C. **Loops can increase the complexity of the code written**
- ☐ D. Loops reduce the physical time spent writing code

10. What would be the output of this statement?

```
int x = 1;
while(x < 5){
    int y = 1;
    while(y < 5){
        System.out.print(y);
        y = y + 1;
    }
    System.out.println("");
    x = x + 1;
}
```

Choose one answer.

- | | | | | | | | |
|-----------------------------|------|--|-------------|-----------------------------|---|-----------------------------|------|
| <input type="checkbox"/> A. | 1111 | <input checked="" type="checkbox"/> B. | 1234 | <input type="checkbox"/> C. | 1 | <input type="checkbox"/> D. | 1 |
| | 2222 | | 1234 | | 2 | | 12 |
| | 3333 | | 1234 | | 3 | | 123 |
| | 4444 | | 1234 | | 4 | | 1234 |
| | | | | | 5 | | |

11. What would be the output of this statement?

```
int x = 1;
int z = 2;
while(x < 5){
    int y = 1;
    while(y < z){
        System.out.print(y);
        y = y + 1;
    }
    System.out.println("");
    x = x + 1;
    z = z + 1;
}
```

Choose one answer.

- | | | | | | | | |
|--|-------------|-----------------------------|------|-----------------------------|------|-----------------------------|------|
| <input checked="" type="checkbox"/> A. | 1 | <input type="checkbox"/> B. | 1 | <input type="checkbox"/> C. | 1111 | <input type="checkbox"/> D. | 1234 |
| | 12 | | 22 | | 2222 | | 1234 |
| | 123 | | 333 | | 3333 | | 1234 |
| | 1234 | | 4444 | | 4444 | | 1234 |