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# SCJP / OCPJP

## Question Bank

### Chapter 6 : Assertions



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## 6. Assertions

**Q: 01 Given:**

```
8. public class test {  
9. public static void main(String [] a) {  
10. assert a.length == 1;  
11. }  
12. }
```

**Which two will produce an AssertionError? (Choose two.)**

- A. java test
- B. java -ea test
- C. java test file1
- D. java -ea test file1
- E. java -ea test file1 file2
- F. java -ea:test test file1

**Answer: B, E**

**Q: 02 Given a method that must ensure that its parameter is not null:**

```
11. public void someMethod(Object value) {  
12. // check for null value  
...  
20. System.out.println(value.getClass());  
21. }
```

**What, inserted at line 12, is the appropriate way to handle a null value?**

- A. assert value == null;
- B. assert value != null, "value is null";
- C. if (value == null) {  
throw new AssertionError("value is null");  
}
- D. if (value == null) {  
throw new IllegalArgumentException("value is null");  
}

**Answer: D**

**Q: 03 Given:**

```
23. int z = 5;  
24.  
25. public void stuff1(int x) {  
26. assert (x > 0);  
27. switch(x) {  
28. case 2: x = 3;  
29. default: assert false; } }  
30.  
31. private void stuff2(int y) { assert (y < 0); }  
32.  
33. private void stuff3() { assert (stuff4()); }  
34.
```

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35. `private boolean stuff4() { z = 6; return false; }`

**Which statement is true?**

- A. All of the assert statements are used appropriately.
- B. Only the assert statement on line 31 is used appropriately.
- C. The assert statements on lines 29 and 31 are used appropriately.
- D. The assert statements on lines 26 and 29 are used appropriately.
- E. The assert statements on lines 29 and 33 are used appropriately.
- F. The assert statements on lines 29, 31, and 33 are used appropriately.
- G. The assert statements on lines 26, 29, and 31 are used appropriately.

**Answer: C**

**Question: 04**

**Click the Exhibit button.**

```
1. public class Test {  
2.  
3. public static void main(String [] args) {  
4. boolean assert = true;  
5. if(assert) {  
6. System.out.println("assert is true");  
7. }  
8. }  
9.  
10. }
```

**Given:**

`javac -source 1.3 Test.java`

**What is the result?**

- A. Compilation fails.
- B. Compilation succeeds with errors.
- C. Compilation succeeds with warnings.
- D. Compilation succeeds without warnings or errors.

**Answer: C**

**Question: 05**

**Given:**

```
1. public class Mule {  
2. public static void main(String[] args) {  
3. boolean assert = true;  
4. if(assert) {  
5. System.out.println("assert is true");  
6. }  
7. }  
8. }
```

**Which command-line invocations will compile?**

- A. `javac Mule.java`
- B. `javac -source 1.3 Mule.java`
- C. `javac -source 1.4 Mule.java`
- D. `javac -source 1.5 Mule.java`

**Answer: B**

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Question: 06

Given:

```
1. public class Donkey2 {  
2. public static void main(String[] args) {  
3. boolean assertsOn = true;  
4. assert (assertsOn) : assertsOn = true;  
5. if(assertsOn) {  
6. System.out.println("assert is on");  
7. }  
8. }  
9. }
```

If class Donkey is invoked twice, the first time without assertions enabled, and the second time with assertions enabled, what are the results?

- A. no output
- B. no output  
assert is on
- C. assert is on
- D. no output  
An AssertionError is thrown.
- E. assert is on  
An AssertionError is thrown.

Answer: C

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Question: 07

Given:

```
1. public class Donkey {  
2. public static void main(String[] args) {  
3. boolean assertsOn = false;  
4. assert (assertsOn) : assertsOn = true;  
5. if(assertsOn) {  
6. System.out.println("assert is on");  
7. }  
8. }  
9. }
```

If class Donkey is invoked twice, the first time without assertions enabled, and the second time with assertions enabled, what are the results?

- A. no output

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B. no output

assert is on

C. assert is on

D. no output

An AssertionError is thrown.

E. assert is on

An AssertionError is thrown.

**Answer: D**

**Question: 08**

**Given:**

11. **public void go(int x) {**

12. **assert (x > 0);**

13. **switch(x) {**

14. **case 2: ;**

15. **default: assert false;**

16. **}**

17. **}**

18. **private void go2(int x) { assert (x < 0); }**

**Which statement is true?**

A. All of the assert statements are used appropriately.

B. Only the assert statement on line 12 is used appropriately.

C. Only the assert statement on line 15 is used appropriately.

D. Only the assert statement on line 18 is used appropriately.

E. Only the assert statements on lines 12 and 15 are used appropriately.

F. Only the assert statements on lines 12 and 18 are used appropriately.

G. Only the assert statements on lines 15 and 18 are used appropriately.

**Answer: G**

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