

## Advanced Java Unit 2 Review

Total Questions: 17

Most Correct Answers: #6

Least Correct Answers: #14

1. In order to use the Properties class, which package must be imported?

- 2/15 ☐ A No import is necessary.
- 2/15 ☐ B java.lang.\*;
- 7/15 ☒ C java.util.\*;
- 1/15 ☐ D java.collections.\*;
- 2/15 ☐ E java.io.\*;

2. Which of the following is NOT one of the main collection interfaces?

- 2/15 ☐ A List
- 8/15 ☒ B Hash
- 1/15 ☐ C Set
- 3/15 ☐ D Map

3. Which of the following provide natural ordering?

- 9/15 ☒ A TreeMap
- 12/15 ☒ B TreeSet
- 2/15 ☐ C HashMap
- 3/15 ☒ D SortedMap

4. Which of the following are true about a TreeMap?

- 12/15 ☒ A It implements the Map interface
- 13/15 ☒ B It can be viewed as a set of keys
- 7/15 ☒ C It can be viewed as a set of entries
- 1/15 ☐ D It cannot be sorted
- 12/15 ☒ E It can contain another collection as a value mapping

5. The Properties class is a type of:

- 1/15 ☐ A List
- 2/15 ☐ B Set
- 11/15 ☒ C Map

0/15 ☐ D ArrayList

6. The Properties class has key-value pairs that are Strings.

14/15 ☒ A True

1/15 ☐ B False

7. An HTTP Request:

4/15 ☐ A is a single-line POST statement

6/15 ☐ B contains header records with information about the server

8/15 ☒ C contains explicit data, for example: information that the user enters in a form

12/15 ☒ D contains a set of header records with information about the browser submitting the request

8. An HTTP Response:

10/15 ☒ A is a set of header records with information about the server followed by the requested document

3/15 ☐ B is just the requested document sent from the server to the browser

2/15 ☐ C is only sent by a server when the requested resource can be found by the server

0/15 ☐ D is a set of header records with information about the browser

9. Which of the following are true about servlets?

15/15 ☒ A Servlets are Java programs that run on web or application servers.

10/15 ☒ B Servlets read the explicit data sent by the client.

10/15 ☒ C Servlets read the implicit HTTP request data sent by the browser.

14/15 ☒ D Only a single copy of a servlet class is loaded on a server. This approach reduces server memory requirements and saves time by instantiating fewer objects.

10. Servlets are:

0/15 ☐ A Part of the javax.transaction and javax.transaction.xa packages

1/15 ☐ B Part of the java.io and java.util packages

10/15



Part of the javax.servlet and javax.servlet.http packages

4/15



Part of the java.servlet and java.servlet.http packages

11. If 100 users access a servlet from 100 different browsers, how many instances of the servlet are instantiated?

2/15



100

0/15



50

12/15



1

0/15



0

12. In a servlet, the **public void init()** method is:

1/15



called once for every request received by the servlet

12/15



called once when the servlet is loaded

0/15



called from the doGet() method

1/15



called when the httpRequest header specifies that it be called

13. Which of the following are true of the servlet life cycle?

0/15



Each user request results in the creation of a new instance of the servlet.

11/15



Each user request results in a new thread that is handed off to doGet or doPost as appropriate.

13/15



When a servlet is first created, its init() method is invoked, so init is where you put one-time setup code.

11/15



The methods involved in the servlet lifecycle are init(), service() and destroy().

8/15



The service() method calls doGet() or doPost().

14. The textbook, Core Servlets and JSPS, suggests 10 different ways to debug servlets. Name as many techniques as you can.

Anon anon0041f204d72546e1

✗ System.out.println,  
log()

Anon anon02ee34a1d00e438e

✗ Logging to local directory  
Step through debugging  
debug flag?  
Pass off to QA with bugs

Anon anon233bf819272c4b92

✗ log, bounce server

Anon anon2cd43ab2eb724b6f

✗ log(); System.out.println() - not the best one, but is OK if you are the only one doing it; Using debugging software;

Anon anon3a9c333b8c9d4220

check the log file.  
deploy the code.  
✗ check the result in the webpage.

Anon anon5762d23395bb4fa5

✗ log();

Anon anon588645ed204149a3

✗ examine the http messages generated, print debugging to html output,

Anon anon5b1c32f3e9a74234

✗ dfd

Anon anon8e4104bb486e4fa1

✗ output to the log via log(), output to a different log via System.out.println()

Anon anon90160757dec7421a

✗ Apache Log4j

Anon anon91be4ab6d1094a14

✗ test caseses

Anon anon944931362b544009

✗ Write a test class,

Anon anon9fea7692100345f2

✗ Can use the println command

Anon anonc057a94fe24c4ae2

System.out.println  
log()  
Check the .war file  
use tbounce tcup tdown  
✗ delete both the .war file and the folder to remove old code

15. Which of the following would be good candidates for code to execute in the init() method?

8/15 ☐ A Create a connection to a database for all users to share

12/15 ☒ B Load properties

8/15 ☒ C Create a hit counter

8/15 ☒ D Configure the servlet

2/15 ☐ E Create unique user ids

**16. Which of the following are true of the Map.Entry interface?**

- 11/15 ☒ A Describes an element (a key/value pair) in a map. This is an inner class of Map.
- 10/15 ☒ B The Map.entrySet() returns a Set containing the map entries. Each of these set elements is a Map.Entry object.
- 2/15 ☐ C Must be used to add key/value pairs to a Map.
- 3/15 ☐ D Must be used to retrieve a value for a given key from a Map.

**17. Which of the following are true when working with Properties?**

- 3/15 ☐ A Comments in property files are designated by lines starting with //.
- 14/15 ☒ B Each key in a properties file is represented on the left side of the = sign, and each value is on the right side of the = sign.
- 10/15 ☒ C Are best loaded with this syntax: 

```
InputStream in = this.getClass().getResourceAsStream("/config.properties");
try {
    configProp.load(in);
    ....
}
```
- 10/15 ☐ D You must make sure the property file is on the classpath.