## QUESTION 1 Correct Answer

Score 20

Implementation of equals() and hashCode() > Coding

## QUESTION DESCRIPTION

Your company has many different products and each product has several different sizes.

The inventory management system treats each combination of "(String) productName" & "(int) size" as an individual *Product* record.

The records also contains a "(LocalDateTime) lastUpdate" field as a timestamp, which can be updated such that even if it is different, as long as the *productName* and *size* fields are equal, the *Product* record should be considered as same.

```
product1: productName = "Gloves", size = 5, timestamp = "2018-01-15 18:35:05" product2: productName = "Gloves", size = 7, timestamp = '2018-01-11 10:02:55" product3: productName = "Gloves", size = 5, timestamp = '2017-12-03 11:28:23" product4: productName = "Hat", size = 5, timestamp = '2017-12-03 11:28:23"
```

With the above example data, only product1.equals(product3) should return *true* as their *productName* and *size* fields are identical (*timestamp* may vary).

All other equals() calls should return false.

Please complete the equals() and hashCode() methods for the Product class.

## CANDIDATE ANSWER

Language used: Java 8

```
1
       @Override
 2
       public boolean equals(Object o) {
         // ****** change the underline part *******
 3
         if (this == o) {
 5
           return true;
 6
         // ****** change the underline part ******
 8
 9
         if (o == null) {
           return false;
11
         // ****** change the underline part *******
14
         if (getClass() != o.getClass()) {
15
           return false;
16
         // ******* change the underline part *******
18
19
         Product p = (Product)o;
         return (this.productName.equals(p.productName)) && (this.size == p.size);
21
       @Override
24
       public int hashCode() {
25
         int result = 7;
26
         // ******** Please ONLY uncomment the correct lines ********
28
         result = result * 31 + size;
29
         result = result * 31 + ((productName == null) ? 0 : productName.hashCode());
30
         // result = result * 31 + (timestamp.hashCode());
31
         return result;
32
      }
```

TESTCASE	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Success	10	0.2 sec	38 MB
Testcase 1	Easy	Success	10	0.2 sec	34.7 MB

No Comments

QUESTION 2  Correct Answer	Strings > Multiple Choice				
	QUESTION DESCRIPTION				
Score 5	The				
	CANDIDATE ANSWER				
	Options: (Expected answer indicated with a tick)				
	= = operator , equals() method equals() method , compare() method				
	equals() method, = = operator				
	= = operator, compare() method				
	No Comments				

PDF generated at: 21 Sep 2018 17:10:53 UTC