

## The Spice Sensation(---RETIRED---)

**Grade settings:** Maximum grade: 100

**Disable external file upload, paste and drop external content:** Yes

**Based on:** [The Spice Sensation\(---RETIRED---\)](#)

**Run:** Yes **Evaluate:** Yes

**Automatic grade:** Yes

As a young and ambitious chef, Maria had always been fascinated by the vast array of flavours and spices that could be used to create delicious and unique dishes. She was particularly skilled at identifying the precise levels of spiciness in different foods and based on that she will give a rating. As a software developer, you help her find the spice level based on her ratings.

### Component Specification: Spice

Type(Class)	Attributes	Responsibilities
<b>Spice</b>	String spiceName  String origin  int spiceRating  String color  int shelfLifeInMonths	Necessary Getters, setters and five argument constructor is provided as part of the code skeleton.

### Functional Requirement 1: Extract the details of spice and create an object of the Spice class

Type(Class)	Methods	Responsibilities
<b>UserInterface</b>	public static Spice <b>extractDetails</b> (String spiceDetails)	This method accepts <b>spiceDetails</b> separated by a colon as an argument and should extract the properties of the <b>Spice</b> from the argument by parsing the <b>spiceDetails</b> . Set these values to the <b>Spice</b> object and return this object.

## Functional Requirement 2: find the spice level based on the spiceRating

Type(Class)	Methods	Responsibilities
Spice	public String findSpiceLevel()	<p>This method is used to display the spice level based on rating and return the spice level</p> <p>If the spiceRating is greater than or equal to 1 and less than 4, then the spiceLevel is "<b>Mild</b>".</p> <p>If the spiceRating is greater than or equal to 4 but less than 7, then the spiceLevel is "<b>Medium</b>".</p> <p>If the spiceRating is greater than or equal to 7 and less than or equal to 9, then the spiceLevel is "<b>Hot</b>".</p> <p><b>Condition:</b></p> <ul style="list-style-type: none"><li>• <i>spiceLevel is case-sensitive.</i></li><li>• <i>If the shelfLifeInMonths is less than or equal to zero, return "Error".</i></li><li>• <i>If the spiceRating is not in the above-mentioned range return "Error".</i></li></ul>

**The main method in the UserInterface class is excluded from evaluation. You are free to write your own code in the main method to invoke the business methods to check its correctness.**

### Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question
- Ensure to provide the names for classes, attributes, and methods as specified in the question.
- Adhere to the code template, if provided.

### Sample Input/Output -1

Enter the details

Chilli Pepper:Central America:9:Red:2

Spice Name: Chilli Pepper

Origin: Central America

Spice Rating: 9

Spice Color: Red

Spice Shelf Life: 2

Spice Level: Hot

### **Sample Input / Output -2**

Enter the details

**Black Pepper:India:-5:Black:9**

Invalid spice details

### **Sample Input / Output -3**

Enter the details

**Black Pepper:India:5:Black:-10**

Invalid spice details

Qualifier Assessment The Spice x +

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File List Save All Compile & Run Evaluate Reset Restore Description

File list

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src

Spice.java U

UserInterfa

```
1 public class Spice {
2
3     private String spiceName;
4     private String origin;
5     private int spiceRating;
6     private String color;
7     private int shelfLifeInMonths;
8
9
10    public String getSpiceName() {
11        return spiceName;
12    }
13
14    public void setSpiceName(String spiceName) {
15        this.spiceName = spiceName;
16    }
17
18    public String getOrigin() {
19        return origin;
20    }
21
22    public void setOrigin(String origin) {
23        this.origin = origin;
24    }
25
26    public int getSpiceRating() {
27        return spiceRating;
28    }
29
30    public void setSpiceRating(int spiceRating) {
31        this.spiceRating = spiceRating;
32    }
33
34    public String getColor() {
35        return color;
36    }
37
38    public void setColor(String color) {
```

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Spice.java U

UserInterfa

```
39
40
41    public int getShelfLifeInMonths() {
42        return shelfLifeInMonths;
43    }
44
45    public void setShelfLifeInMonths(int shelfLifeInMonths) {
46        this.shelfLifeInMonths = shelfLifeInMonths;
47    }
48
49    public Spice(String spiceName, String origin, int spiceRating, String color, int shelfLifeInMonths) {
50        super();
51        this.spiceName = spiceName;
52        this.origin = origin;
53        this.spiceRating = spiceRating;
54        this.color = color;
55        this.shelfLifeInMonths = shelfLifeInMonths;
56    }
57
58    public Spice() {
59        super();
60    }
61
62    public String findSpiceLevel()
63    {
64        //Fill the code here
65        return null;
66    }
67
68
69
70
71
72
73
74
75 }
```

