

EduBridge



PITTALA ARUN KUMAR

Java Full Stack - Coding Assessment 35's report

Submitted on Jun 03 2023 09:33:44 IST



133.3 (89%)
scored out of 150



Completed
in the assignment



3
problems attempted out of 3



2.3 / 5
avg. code quality score



Severe Violation
flagged by DoSelect proctoring engine

Test time analysis



2h 0m 0s
time taken for completion



Jun 03 2023 07:31:32 IST
test invite time



Jun 03 2023 07:33:44 IST
test start time



Jun 03 2023 09:33:44 IST
test end time

Performance summary



2
solutions accepted



1
solution partially accepted

Proctor analysis



0
browser used



0
navigation violation



2
webcam violations



0 min
no test window violation

Solutions

Problem Name	Problem Type	Status	Score
Job Seekers	Coding	ACCEPTED	50.0 / 50
Paper Wasp	Coding	PARTIALLY ACCEPTED	33.3 / 50
Exception in Age	Coding	ACCEPTED	50.0 / 50

Technology used



Additional Information

Question	Response
Enrollment Number	EBEON0223750433
Batch Code (Eg : 2022-XXXX)	2022-8938

Detailed Report

Problem 1 : Job Seekers

CODING

SCORE: 50

You are asked to create an application for registering the details of a job-seeker. The requirement is:

- Username should always end with _job and there should be at least minimum of 8 characters to the left of _job. Write a function to validate the same.

Your task here is to implement a **Java** code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider default visibility of classes, data fields and methods unless mentioned otherwise.

Specifications

```
class definitions:
class Source:
    visibility: public
    method definitons:
        validate(String s): Return true in case the validation is passed. In cas
e of validation failure return false.
        return type: boolean
        visibility: public
```

Task

Create a class **Source** according to above specifications and implement the below given method:

- **boolean validate(String s):** Return true in case the validation is passed. In case of validation failure return false.

Sample Input 1

```
capgemini
```

Sample Input 2

```
capgemini_job
```

Sample Output 1

```
false
```

Sample Output 2

```
true
```

NOTE:

- The above **Sample Input** and **Sample Output** are only for demonstration purposes and will be obtained if you implement the **main()** method with all method calls accordingly.

- Upon implementation of **main()** method, you can use the **RUN CODE** button to pass the **Sample Input** as input data in the method calls and arrive at the **Sample Output**.

Solution

ACCEPTED

SCORE: 50.0 / 50

Code Quality Analysis



Many quality violations

Quality score: 2.4

Deep Code Analysis Results



Straightforward approach

No cyclomatic constructs detected.



Low modularity

Some reusable components found.



Very low extensibility

The code is difficult to extend.

```

1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6 import java.util.Scanner;
7
8 // Class name should be "Source",
9 // otherwise solution won't be accepted
10 public class Source {
11     public static void main(String args[] ) {
12         Scanner scanner =new Scanner(System.in);
13         String s=scanner.nextLine();
14         boolean result=validate(s);
15         System.out.println(result);
16     }
17     public static boolean validate(String s){
18         if(s.endsWith("_job")&&s.length()>=8){
19             return true;
20         }
21         else
22         {
23             return false;
24         }
25     }
26
27     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
28 }

```

Java 8

Evaluation Details

Test_Methods (weight:1)

Status

Passed

Execution time	2.59s
CPU	0s
Memory	1MB
Description	Testcase passed!

Sample_TC *(sample)*

Status	Passed
Execution time	2.81s
CPU	0s
Memory	1MB
Description	Testcase passed!

Test_Job *(weight:1)*

Status	Passed
Execution time	2.60s
CPU	0s
Memory	1MB
Description	Testcase passed!

Problem 2 : Paper Wasp

CODING

SCORE: 50

Your task here is to implement a **Java** code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider default visibility of classes, data fields, and methods unless mentioned otherwise.

Specifications:

```

class definitions:
class Insect:
    data members:
        String insectName;
        int insectWeight;
        visibility: private

    Insect(String insectName, int insectWeight): constructor with public
visibility
    Define getters and setters with public visibility
    toString(): has been implemented for you

class Insecticides:
    method definition:
    mapInsectstName(List<Insect> list):
        return type: List<String>
        visibility: public

    getWeight(List<Insect> list):
        return type: List<Insect>
        visibility: public

```

Task:

class **Insect**:

- define class **Student** according to the above specifications

class **Insecticides**:

Implement the below method for this class:

- **List<String>** **mapInsectsName(List<Insect> list)**: fetch and return the Insect name from the list
- **List<Insect>** **getWeight(List<Insect> list)**: filter the weight from the list greater than **40** and less than equal to **100**, put it into a list and return the desired list

Refer sample output for clarity

Sample Input

```

Insecticides i = new Insecticides();
List<Insect> list = new ArrayList<Insect>();
    list.add(new Insect("Ant", 45));
    list.add(new Insect("Cockroach", 65));
    list.add(new Insect("bee", 99));
    list.add(new Insect("paper wasp", 11));
-----

```



```
i.mapInsectstName(list)
i.getWeight(list)
```

Sample Output

```
[Ant, Cockroach, bee, paper wasp]
-----
[Insect{insectName='Ant', insectWeight=45}, Insect{insectName='Cockroach',
insectWeight=65}, Insect{insectName='bee', insectWeight=99}]
```

NOTE

- You can make suitable function calls and use **the RUN CODE** button to check your **main()** method output.

Solution

PARTIALLY ACCEPTED

SCORE: 33.3 / 50

Code Quality Analysis



Many quality violations

Quality score: 1.7

Deep Code Analysis Results



Straightforward approach

No cyclomatic constructs detected.



Low modularity

Some reusable components found.



Extensible implementation

The code is easy to extend.

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 class Insect {
8     //Code Here..
9     private String insectName;
10    private int insectWeight;
11    public Insect(String insectName,int insectWeight){
12        this.insectName=insectName;
13        this.insectWeight=insectWeight;
14    }
15
16    public String getInsectName(){
17        return insectName;
18    }
19
20    public void setInsectName(String insectName){
```

Java 8

```

21         this.insectName=insectName;
22     }
23     public int getInsectWeight(){
24         return insectWeight;
25     }
26     public void setInsectWeight(int insectWeight){
27         this.insectWeight=insectWeight;
28     }
29
30
31
32     @Override
33     public String toString() {
34         return "Insect{" +
35             "insectName='" + insectName + '\'' +
36             ", insectWeight=" + insectWeight +
37             '}';
38     }
39 }
40
41 class Insecticides {
42     //Code Here..
43     public List<String>mapInsectsName(List<Insect>list){
44         List<String>result=new ArrayList<>();
45         for(Insect i:list){
46             result.add(i.getInsectName());
47         }
48         return result;
49     }
50
51
52     public List<Insect>getWeight(List<Insect>list){
53         List<Insect>result=new ArrayList<>();
54         for(Insect i:list) {
55             if(i.getInsectWeight()>40 && i.getInsectWeight()<=100){
56                 result.add(i);
57             }
58         }
59         return result;
60     }
61 }
62 public class Source {
63     public static void main(String args[] ) throws Exception {
64         /* Enter your code here. Read input from STDIN. Print output to STDOUT */
65         Insecticides i=new Insecticides();
66         List<Insect> list=new ArrayList<Insect>();
67         List<String>result=new ArrayList<String>();
68         list.add(new Insect("Ant",45));
69         list.add(new Insect("Cockroach",65));
70         list.add(new Insect("bee",99));
71         list.add(new Insect("paper wasp",11));
72         System.out.println(i.mapInsectsName(list));
73         System.out.println(i.getWeight(list));
74         for(Insect in:list){
75             result.add(in.toString());
76         }
77         System.out.println(result);
78     }
79 }
80 }

```

Evaluation Details

Test_Insecticides (weight:1)

Status	Passed
Execution time	2.82s

CPU	0s
Memory	1MB
Description	Testcase passed!

Test_getWeight2 (weight:1)

Status	Passed
Execution time	2.77s
CPU	0s
Memory	1MB
Description	Testcase passed!

Test_Insect (weight:1)

Status	Passed
Execution time	3.01s
CPU	0s
Memory	1MB
Description	Testcase passed!

Test_getWeight1 (weight:1)

Status	Passed
Execution time	2.90s
CPU	0s
Memory	1MB
Description	Testcase passed!

Test_mapInsectstName2 (weight:1)

Status	Failed
Execution time	3.08s
CPU	0s
Memory	432kB
Description	Testcase failed.

Evaluation logs

```
eval.java:13: error: cannot find symbol
assertEquals("[, ]",String.valueOf( i.mapInsectstName(list)));
^
symbol: method mapInsectstName(List<Insect>)
location: variable i of type Insecticides
1 error
```

Test_mapInsectstName1 (weight:1)

Status	Failed
Execution time	3.47s
CPU	0s
Memory	432kB
Description	Testcase failed.

Evaluation logs

```
eval.java:13: error: cannot find symbol
assertEquals("[Hopper, cvvfd]",String.valueOf( i.mapInsectstName(list)));
^
symbol: method mapInsectstName(List<Insect>)
location: variable i of type Insecticides
1 error
```

Sample_TC (sample)

Status	Failed
Execution time	4.72s
CPU	0s
Memory	432kB
Description	Testcase failed.

Evaluation logs

```
eval.java:15: error: cannot find symbol
assertEquals("[Ant, Cockroach, bee, paper wasp]",String.valueOf(
i.mapInsectstName(list)));
^
symbol: method mapInsectstName(List<Insect>)
location: variable i of type Insecticides
1 error
```

Problem 3 : Exception in Age

CODING

SCORE: 50

Write a java program to validate the age of a person and display proper message by using user defined exception. Age of a person should be above 15.

Your task here is to implement a **Java** code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider default visibility of classes, data fields and methods unless mentioned otherwise.

Specifications

```
class definitions:
  class MyException: Define exception
  class Source:
    method definitions:
      checkAge(int age): throw a user defined exception if age is smaller than
15      visibility: public
```

Task

- Define **MyException** class
- Create a class **Source** and implement the below given method
- **String checkAge(int age)**: throw a user defined exception if age is smaller than 15

Sample Input

22

Sample Output

valid

NOTE:

- The above **Sample Input** and **Sample Output** are only for demonstration purposes and will be obtained if you implement the **main()** method with all method calls accordingly.
- Upon implementation of **main()** method, you can use the **RUN CODE** button to pass the **Sample Input** as input data in the method calls and arrive at the **Sample Output**.

Solution

ACCEPTED

SCORE: 50.0 / 50

Code Quality Analysis



Minor quality violations

Quality score: 2.8

Deep Code Analysis Results



Straightforward approach

No cyclomatic constructs detected.



Low modularity

Some reusable components found.



Low extensibility

Some extensible features detected.

```

1  import java.util.*;
2  public class Source{
3      public static void main(String args[]){
4          Scanner sc=new Scanner(System.in);
5          int age=sc.nextInt();
6          try
7          {
8              checkAge(age);
9          }
10         catch(MyException e){
11             e.getMessage();
12         }
13     }
14     public static String checkAge(int age)throws MyException{
15         if(age<15)
16             throw new MyException("age below 15");
17         else
18             return "valid";
19     }
20 }
21 class MyException extends Exception{
22     MyException(String s){
23         super(s);
24     }
25 }
```

Java 8

Evaluation Details

Test_Methods_Source (weight:1)

Status	Passed
Execution time	2.54s
CPU	0s
Memory	1MB
Description	Testcase passed!

Sample_TC (sample)

Status	Passed
Execution time	2.74s
CPU	0s
Memory	1MB

Description	Testcase passed!
--------------------	------------------

Test_Valid (*weight:1*)

Status	Passed
Execution time	2.95s
CPU	0s
Memory	1MB
Description	Testcase passed!

Test_Methods_MyException (*weight:1*)

Status	Passed
Execution time	2.73s
CPU	0s
Memory	1MB
Description	Testcase passed!