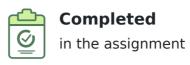


Badramraju Poojya

Java Full Stack _Coding Assessment_15's report

Submitted on Dec 28 2023 17:41:27 IST







problems attempted out of 3



3.0 / 5

avg. code quality score



Severe Violation

flagged by DoSelect proctoring

Test time analysis



43m 18s

time taken for completion



Dec 06 2023 23:24:44 IST

test invite time



Dec 28 2023 16:58:09 IST

test start time



Dec 28 2023 17:41:27 IST

test end time

Performance summary



solutions accepted

Proctor analysis



browser used



navigation violation



webcam violations



no test window violation

Webcam Violation - flagged by DoSelect Proctoring Engine due to below reasons

Total Frames Captured: 0

Frames with Matching Faces		0
Frames with Multiple Faces		0
Frames with Different Face		0
Frames with No Face		0

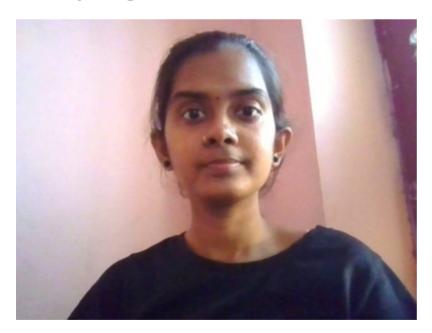
Total Frames Missing: 2598

Webcam not detected	0
Test-taker closing the tab	0
Network Issues	0
Other factors*	2598

Total Webcam Violations: 2

Set of 10 back-to-back Suspicious Frames**	0
Set of 10 back-to-back Missing frames	1
Suspicious Frames**/Missing Frames detected in more than 10% of test duration	1

Identity Image



 $[\]ensuremath{^{*}}$ Missing frames due to other factors such as test-taker's system issues etc

^{**} Suspicious frames includes Multiple Faces, Different Faces and No Face

Solutions

Problem Name	Problem Type	Status	Score
Paper Wasp	Coding	ACCEPTED	50.0 / 50
Exception in Age	Coding	ACCEPTED	50.0 / 50
Average of weekly expense	Database	ACCEPTED	50.0 / 50

Technology used



Java



MySQL

Additional Information

Question	Response
Enrollment Number	2023-10433
Batch Code (Eg : 2022-XXXX)	EBEON0923841797

Detailed Report

Problem 1: 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 **Insect** 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

ACCEPTED | SCORE: **50.0** / 50

Code Quality Analysis



Many quality violations

Quality score: 2.0

Deep Code Analysis Results



Straightforward approach

No cyclomatic constructs detected.



Modular code

Sufficient reusable components found.



Extensible implementation

The code is easy to extend.

```
1 import java.io.*;
                                                                                       Java 8
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;
12  public Insect(String insectName,int insectWeight){
13
         this.insectName=insectName;
14
         this.insectWeight=insectWeight;
15 }
16
17  public String getInsectName(){
18
         return insectName;
19 }
```

```
20
21
     public int getInsectWeight(){
22
         return insectWeight;
23
24
25
     public void setInsectName(String InsectName){
26
         this.insectName=insectName;
27
28
29
     public void setInsectWeight(int InsectWeight){
30
         this.insectWeight=insectWeight;
31
32
33
         @Override
       public String toString() {
34
35
           return "Insect{" +
                   "insectName='" + insectName + '\'' +
36
                   ", insectWeight=" + insectWeight +
37
38
                   '}';
39
       }
40 }
41
42 class Insecticides {
43
       public List<String> mapInsectstName(List<Insect> list){
44
           List<String> insectNames=new ArrayList<>();
45
           for(Insect insect:list){
46
               insectNames.add(insect.getInsectName());
47
           }
48
           return insectNames;
49
50
        public List<Insect> getWeight(List<Insect> list){
51
           List<Insect> filteredList=new ArrayList<>();
52
           for(Insect insect:list){
53
               int w=insect.getInsectWeight();
54
               if(w>40 \&\& w<=100){
55
                   filteredList.add(insect);
56
57
           }
58
           return filteredList;
59
       }
60
61
62
63 public class Source {
           public static void main(String args[] ) throws Exception {
64
               List<Insect> insectList=Arrays.asList(new Insect("Cockroach",65),
65
               new Insect("Ant",45),new Insect("Bee",99),new Insect("paper wasp",11));
66
67
68
               Insecticides insects=new Insecticides();
69
70
               List<String> insectNames=insects.mapInsectstName(insectList);
71
               System.out.println(insectNames);
72
73
               List<Insect> newInsects=insects.getWeight(insectList);
74
               System.out.println(newInsects);
75
76
77
           }
78 }
```

Evaluation Details

```
Test_Insecticides (weight:1)

Status Passed
Execution time 2.64s
CPU 0s
```

Memory 1MB

Description Testcase passed!

Test_getWeight2 (weight:1)

Status Passed
Execution time 2.50s

CPU 0s

Memory 1MB

Description Testcase passed!

Test_Insect (weight:1)

StatusPassedExecution time2.56sCPU0sMemory1MB

Description Testcase passed!

Test_getWeight1 (weight:1)

StatusPassedExecution time2.77sCPU0sMemory1MB

Description Testcase passed!

Test_mapInsectstName2 (weight:1)

StatusPassedExecution time2.62sCPU0sMemory1MB

Description Testcase passed!

Test_mapInsectstName1 (weight:1)

Status Passed

Execution time 2.69s

CPU 0s

Memory 1MB

Description Testcase passed!

Sample_TC (sample)

StatusPassedExecution time3.02sCPU0sMemory1MB

Description Testcase passed!

Problem 2: 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



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.Scanner;
                                                                                      Java 8
3 class MyException extends Exception{
4
       public MyException(String errorMessage){
5
           super(errorMessage);
6
7 }
8
9 class Source{
       public static String checkAge(int Age) throws MyException{
10
11
          if(Age<15){
              throw new MyException("Invalid");
12
13
          }else{
14
              return "valid";
15
          }
16
       }
17
18
       public static void main(String[] args){
19
          Scanner s=new Scanner(System.in);
20
21
          int age=s.nextInt();
          s.close();
22
23
24
25
          try{
26
              String result=checkAge(age);
27
              System.out.println(result);
28
          }catch(MyException e){
29
              System.out.println(e.getMessage());
30
31
          }
32
       }
33 }
```

Evaluation Details

```
Test_Methods_Source (weight:1)

Status Passed
Execution time 2.61s
CPU 0s
Memory 1MB
Description Testcase passed!

Sample_TC (sample)
```

Status Passed

Execution time 2.48s

CPU 0s

Memory 1MB

Description Testcase passed!

Test_Valid (weight:1)

StatusPassedExecution time2.70sCPU0sMemory1MB

Description Testcase passed!

Test_Methods_MyException (weight:1)

StatusPassedExecution time2.93sCPU0sMemory1MB

Description Testcase passed!

Problem 3 : Average of weekly expense

DATABASE

SCORE: 50

Environment Specifications & Instructions

• Type of Database: MySQL

• Database Name to be used: DB_WeekExpense

Existing Information

• Table Descriptions : tbl_WeekExpense description as below:

Column Name	Data Type
WeekNumber	varchar(20)
WeekDayName	varchar(50)
Expense	decimal(18, 0)

Problem Statement

Construct a query to display the average of weekly expense "**Avg_Expense**" of week number 5 "**Week05**".

Sample Input

WeekNumber	Week Day Name	Expense
Week05	Monday	20.00
Week05	Tuesday	60.00
Week05	Wednesday	20.00
Week05	Thurusday	42.00
Week05	Friday	10.00
Week05	Saturday	15.00
Week05	Sunday	8.00
Week04	Monday	29.00
Week04	Tuesday	17.00
Week04	Wednesday	42.00
Week04	Thurusday	11.00
Week04	Friday	43.00
Week04	Saturday	10.00
Week04	Sunday	15.00
Week03	Monday	10.00
Week03	Tuesday	32.00
Week03	Wednesday	35.00
Week03	Thurusday	19.00

Sample Output



Note:

The sample output given is not the expected output. It is just given for ease of understanding and clarification.

Solution

ACCEPTED | SCORE: **50.0** / 50

```
1 use DB_WeekExpense;
2 /*
3 * Enter your query below.
4 * Please append a semicolon ";" at the end of the query
5 */
6 Select AVG(Expense) As Avg_Expense from tbl_weekExpense where weeknumber="week05";
7
```

Evaluation Details

Testcase #1 (weight:1)

Status Passed

Execution time 0.00s

CPU 0s

Memory 6MB

Description Testcase passed! The solution's output matches the expected output.