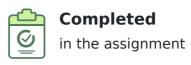


PITTALA ARUN KUMAR

Java Full Stack - Coding Assessment 36's report

Submitted on Jun 03 2023 11:56:58 IST







problems attempted out of 3



avg. code quality score



Severe Violation

flagged by DoSelect proctoring

Test time analysis



34m 45s

time taken for completion



Jun 03 2023 11:20:51 IST

test invite time



Jun 03 2023 11:22:12 IST

test start time



Jun 03 2023 11:56:58 IST

test end time

Performance summary



solutions accepted



solution partially accepted

Proctor analysis



browser used



navigation violation



webcam violations



no test window violation

Solutions

Problem Name	Problem Type	Status	Score
Distance Traveled	Coding	ACCEPTED	100.0 / 100
The classroom	Coding	PARTIALLY ACCEPTED	22.2 / 100
Exception in Name [5.4]	Coding	ACCEPTED	100.0 / 100

Technology used



Additional Information

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

Detailed Report

Problem 1: Distance Traveled

CODING | SCORE: **100**

Problem Statement

Write a program to calculate the distance travelled by car at different time intervals. The initial velocity of the car is 36 km/hr and the constant acceleration is 5 m/s2.

The formula to calculate distance is:

Distance Travelled = u*t+((a*t*t)/2) where,

 $u = initial \ velocity \ of the \ car \ (36 \ km/hr)$

a = acceleration of the car (5 m/s²)

t = time duration in seconds

The program should accept 2-time intervals as the input (one-time interval per line) and print the distance travelled in meters by car (one output per line).

Definitions:

1 kilometer = 1000 meters

1 hour = 3600 seconds

Sample Input

10 8

Sample Output

350 240

Solution

ACCEPTED

SCORE: **100.0** / 100

Code Quality Analysis



Many quality violations

Quality score: 2.2

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.io.*;
                                                                                      Java 8
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
7 // Class name should be "Source",
8 // otherwise solution won't be accepted
9 public class Source {
10
       public static void main(String[] args) {
11
12
           Scanner in = new Scanner(System.in);
13
          // Declare the variable
14
15
           int a;
16
          int b;
17
18
          // Read the variable from STDIN
19
          a = in.nextInt();
20
          b = in.nextInt();
21
          // Output the variable to STDOUT
22
23
          calcSpeed(a);
24
          calcSpeed(b);
25
26
      public static void calcSpeed(int t){
27
          int u=10;
28
          int a=5;
29
          int distance_travelled=u*t+((a*t*t)/2);
30
           System.out.println(distance travelled);
31
32
      }
33 }
```

Evaluation Details

```
Testcase #1 (sample)

Status Passed

Execution time 0.46s

CPU 0s

Memory 22MB

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

Input
```

10 8

Solution output

350 240

Expected output

350 240

Testcase #2 (weight:1)

StatusPassedExecution time0.47sCPU0sMemory22MB

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

Problem 2: The classroom

CODING SCORE: **100**

Your task here is to implement **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.

Specifications

```
class definitions:
  class Student:
  data members:
   String name
  int score

Student(String name, int score): constructor with public visibility

class Classroom:
  method definition:
   registerStudent(Student student):
    return: String
    visibility: public

studentCard(String card):
   return: String
   visibility: public
```

class Student

- define data members according to the above specifications

class Classroom

- define data members according to the above specifications
- -Implement the below methods for this class:

-String <u>registerStudent(Student student):</u>

- Write a code to validate the names and marks of the students according to the below specifications.
- The name must be in uppercase, if not return "Block letters needed".
- If the score is not between 0 to 100 then return "Invalid score".
- If the above conditions are satisfied then return "Registered".

-String studentCard(String card):

- The given string contains **only numbers**(no alphabets and special symbols allowed).
- If it has any other character return "Invalid card" else return "Valid card".

Sample Input

```
Student s1=new Student("A",6);
Classroom cm=new Classroom();
cm.registerStudent(s1);
```

Sample Output

```
Registered
```

NOTE:

- You can make suitable function calls and use the RUN CODE button to check your main()
 method output.
- Make sure that all the strings in the return statement are case-sensitive.

Solution

PARTIALLY ACCEPTED | SCORE: 22.2 / 100

Code Quality Analysis



Minor quality violations

Quality score: 2.6

Deep Code Analysis Results



Straightforward approach

No cyclomatic constructs detected.



Modular code

Sufficient reusable components found



Low extensibility

Some extensible features detected.

```
1 import java.io.*;
                                                                                                Java 8
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
7 class Student{
8 //Code Here..
9 String name;
10 int score;
11 public Student (String name, int score){
12
        this.name=name;
13
        this.score=score;
14 }
15 }
16
17 class Classroom{
18 //Code Here..
```

```
19 public String registerStudent(Student student){
20
       if(!student.name.equals(student.name.toUpperCase())){
           return "Block letters needed";
21
22
       if(student.score<0||student.score>100){
23
24
           return "invalid score";
25
26
       return "Valid card";
27 }
28 }
29
30 public class Source {
31
        public static void main(String args[] ) throws Exception {
32
                  /* Enter your code here. Read input from STDIN. Print output to STDOUT */
                  Student s1=new Student("A",6);
33
34
                  Classroom cm=new Classroom();
35
                  String output=cm.registerStudent(s1);
36
                  System.out.println(output);
37
           }
38 }
```

Evaluation Details

```
Testcase #clsClassroom (weight:1)

Status Failed
Execution time 2.33s
CPU 0s
Memory 1MB
Description Testcase failed.

Evaluation logs
Exception in thread "main" java.lang.AssertionError at eval.main(eval.java:8)
```

```
Testcase #studentCard2 (weight:1)
  Status
                      Failed
  Execution time
                      2.59s
  CPU
                      0s
  Memory
                      432kB
  Description
                      Testcase failed.
Evaluation logs
eval.java:6: error: cannot find symbol
assert cm.studentCard("23dwq").equals("Invalid card");
symbol: method studentCard(String)
location: variable cm of type Classroom
1 error
```

Testcase #Sample (sample)

StatusPassedExecution time2.58sCPU0sMemory1MB

Description Testcase passed!

Testcase #clsStudent (weight:1)

StatusPassedExecution time2.27sCPU0sMemory1MB

Description Testcase passed!

Testcase #studentCard3 (weight:1)

StatusFailedExecution time2.43sCPU0sMemory436kB

Description Testcase failed.

Evaluation logs

eval.java:6: error: cannot find symbol
assert cm.studentCard("23234").equals("Valid card");
^
symbol: method studentCard(String)
location: variable cm of type Classroom
1 error

Testcase #registerStudent1 (weight:1)

StatusFailedExecution time2.53sCPU0sMemory1MB

Description Testcase failed.

Evaluation logs

Exception in thread "main" java.lang.AssertionError
at eval.main(eval.java:6)

Testcase #registerStudent4 (weight:1)

StatusFailedExecution time2.41sCPU0sMemory1MB

Description Testcase failed.

Evaluation logs

Exception in thread "main" java.lang.AssertionError
at eval.main(eval.java:9)

Testcase #registerStudent2 (weight:1)

StatusPassedExecution time2.34sCPU0sMemory1MB

Description Testcase passed!

Testcase #registerStudent3 (weight:1)

StatusFailedExecution time2.24sCPU0sMemory1MB

Description Testcase failed.

Evaluation logs

Exception in thread "main" java.lang.AssertionError
at eval.main(eval.java:6)

Testcase #studentCard (weight:1)

Status Failed

Execution time 2.21s

CPU 0s

Memory 436kB

Description Testcase failed.

Evaluation logs

eval.java:6: error: cannot find symbol

assert cm.studentCard("23d#\$@\$").equals("Invalid card");

symbol: method studentCard(String)
location: variable cm of type Classroom

1 error

Problem 3: Exception in Name [5.4]

CODING SCORE: 100

Write a Java Program to validate the full name of an employee. Create and throw a user defined exception if **firstName** and **lastName** is blank.

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:
        checkName(String firstName,String lastName)throw a user defined
exception if firstName and lastName is blank else return name
        return type: String
        visibility: public
```

Task

- Define MyException class
- Create a class **Source** and implement the below given method
- checkName(String firstName,String lastName): throw a user defined exception if firstName and lastName is blank else return name

Sample Input

Alan Hasley

Sample Output

AlanHasley

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: **100.0** / 100

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.



Low extensibility

Some extensible features detected.

```
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
8 // Class name should be "Source",
9 // otherwise solution won't be accepted
10 public class Source {
           public static void main(String args[] ) throws Exception {
11
                   /* Enter your code here. Read input from STDIN. Print output to STDOUT */
12
13
                   Scanner sc=new Scanner(System.in);
14
                   String firstName=sc.next();
15
                   String lastName=sc.next();
16
                   System.out.println(checkName(firstName,lastName));
17
18
           public static String checkName(String firstName, String lastName) throws MyException{
               if(firstName.equals("") || lastName.equals("""))
19
20
               throw new MyException("Invalid name");
21
               return (firstName+lastName);
           }
22
23 }
24
           class MyException extends Exception{
25
               public MyException(String message){
26
                   super(message);
27
               }
           }
28
```

Evaluation Details

Test_Methods_MyEXception (weight:1)

StatusPassedExecution time2.46sCPU0sMemory1MB

Description Testcase passed!

Test_Name (weight:1)

StatusPassedExecution time2.57sCPU0sMemory1MB

Description Testcase passed!

Sample_TC (sample)

StatusPassedExecution time2.85sCPU0sMemory1MB

Description Testcase passed!

Test_Methods_Source (weight:1)

StatusPassedExecution time2.41sCPU0sMemory1MB

Description Testcase passed!