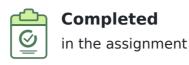


PITTALA ARUN KUMAR

Java Full Stack - Coding Assessment 34's report

Submitted on May 11 2023 21:48:51 IST







problems attempted out of 3



3.4 / 5

avg. code quality score



Severe Violation

flagged by DoSelect proctoring

Test time analysis



1h 0m 20s

time taken for completion



May 09 2023 15:25:59 IST

test invite time



May 11 2023 20:48:31 IST

test start time



May 11 2023 21:48:51 IST

test end time

Performance summary



solutions accepted

Proctor analysis



browser used



navigation violation



webcam violations



no test window violation

Solutions

| Problem Name | Problem Type | Status | Score |
|----------------------------|-----------------|----------|------------------|
| Insert Space [Lab 10 Ex-2] | Coding | ACCEPTED | 50.0 / 50 |
| Infinite String | Coding | ACCEPTED | 50.0 / 50 |
| Sarah in Amsterdam | 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 : Insert Space [Lab 10 Ex-2]

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 Source:
   visibility: public
   method definition:
    insertSpace(String s): method that uses lambda expression to format a
given string, where a space is inserted between each character of string.
   return type: String
```

Task

Create a **Source** class and implement below given method:

• insertSpace(String s): Use lambda expression to format a given string, where a space is inserted between each character of string

Implement using Lambda expressions.

NOTF

- Do not use any **for** loops or other control structures.
- Use the **Stream API** methods for your implementations, else the test-cases might fail.

Sample Input

capgemini

Sample Output

```
capgemini
```

NOTF:

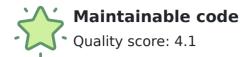
- The above Sample Input and Sample Output are only for demonstration purposes and will be obtained if you implement the main() method with all method calls accordingly.
- Upon implementation of main() method, you can use the RUN CODE button to pass the
 Sample Input as input data in the method calls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



Modular code

Sufficient reusable components found.



Very low extensibility

The code is difficult to extend.

```
1 @FunctionalInterface
                                                                                       lava 8
2 interface StringSpace {
3
       String addSpace(String s);
4 }
5
6
7 public class Source {
8
9
       public static void main(String[] args) {
           String input="capgemini";
11
           System.out.println(Source.insertSpace(input));
12
       }
13
       static String insertSpace(String s)
14
15
           StringSpace space=str->str.chars()
          .mapToObj(c->String.valueOf((char) c))
           .reduce("",(str1,str2)->str1+" "+str2);
17
18
          String result=space.addSpace(s).trim();
19
          return result;
20
       }
21 }
```

Evaluation Details

```
Test_Method (weight:1)

Status Passed

Execution time 2.88s

CPU 0s

Memory 1MB

Description Testcase passed!

Annotation Correct code
```

Test_Space (weight:1)

Status Passed

Execution time 3.62s

CPU 0s

Memory 1MB

Description Testcase passed!

Annotation Correct code

Sample_TC (sample)

Status Passed

Execution time 3.20s

CPU 0s

Memory 1MB

Description Testcase passed!

Problem 2: Infinite String

CODING | SCORE: **50**

Problem Statement

In this problem you will be given a string S, consisting of lowercase alphabets (a-z), in which each character is unique. Another string INF is formed by repeating the string S infinitely many times.

Example: If S = "abcde" then the string INF is ...abcdeabcdeabcde... Here the dots ('.') indicate that there are infinitely many characters before and after the string.

Now you will be given another string \boldsymbol{A} and asked to find whether there is any sub-string in \boldsymbol{INF} which is identical to \boldsymbol{A} .

Input Format

- The first line contains the number of test-cases **T**.
- The next **T** lines will contain a space-separated string, made up of two parameters:
- The first parameter will be **infStr**, representing **S** from the above example
- The second parameter will be **toFind**, representing **A** from the above example.

Output Format

• The function should print **YES** if A can be found in S, otherwise it should print **NO**.

e.g., If the second line of input contains:

abcd abce

• The function should print **NO**, because, if we repeat "abcd" infinitely many times we will get,
"...abcdabcdabcdabcd..." . We will never get an "e".

Evaluation Parameters Sample Input

ghijk ghijkghi

Sample Output

YES

Explanation

• The infinite string of 'ghijk' contains 'ghijkghi' as it's sub-string, hence you print YES.

Solution

ACCEPTED

SCORE: **50.0** / 50

Code Quality Analysis



Minor quality violations

Quality score: 3.2

Deep Code Analysis Results



Straightforward approach

No cyclomatic constructs detected.



Very low modularity

No reusable components found.



Low extensibility

Some extensible features detected.

```
1 import java.io.*;
                                                                                          Java 8
 3 class Source
 4 {
 5
            public static int inf string(String a, String b)
 6
                    // return 1 if the string 'a' can be contained in 'b'.
 7
                   StringBuilder strbldr=new StringBuilder();
 8
 9
                   while(strbldr.length()<(b.length()*2))</pre>
10
                   {
                       strbldr.append(a);
11
12
                   }
                   return strbldr.toString().contains(b)?1:0;
13
            }
14
15
           public static void main (String[] args) throws
16
IOException, java.lang.NumberFormatException
17
            {
18
                int t;
19
                   BufferedReader input = new BufferedReader (new InputStreamReader (System.in));
20
                   t =Integer.parseInt(input.readLine());
21
22
23
                   while(t > 0)
24
                   {
25
                           String ab = input.readLine();
26
                           //String b = input.readLine();
                           String a=ab.split("")[0];
27
                           String b=ab.split(" ")[1];
28
29
                           int ans = inf_string(a, b);
                           if(ans == 1)
30
31
                           {
32
                                   System.out.println("YES");
33
                           }
34
                           else
35
                           {
36
                                   System.out.println("NO");
                           1
37
38
                           t--;
                   }
39
40
           }
41 }
```

Evaluation Details

Testcase #1 (weight:1)

StatusPassedExecution time0.30sCPU0sMemory2MB

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

Annotation Solution implements the correct logic.

Testcase #5 (weight:1)

StatusPassedExecution time0.93sCPU0sMemory28MB

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

Annotation Solution passes for the larger test case.

Testcase #2 (weight:1)

StatusPassedExecution time0.32sCPU0sMemory2MB

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

Annotation Solution implements the correct logic.

Testcase #4 (weight:1)

StatusPassedExecution time1.09sCPU0sMemory29MB

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

Annotation Solution passes for the larger test case.

Testcase #6 (sample)

StatusPassedExecution time0.32sCPU0sMemory2MB

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

Annotation Solution implements the correct logic.

Input

2 abcd abce abcde eabcdeab

Solution output

NO YES

Expected output

NO YES

Testcase #3 (weight:1)

StatusPassedExecution time0.74sCPU0sMemory27MB

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

Annotation Solution implements the correct logic.

Problem 3: Sarah in Amsterdam

CODING SCORE: **50**

Sarah is planning to spend a week at her friend's summer house in Amsterdam. Sarah is not sure if her father will allow her to go with the friends. However, Sarah went to her father and ask for his permission. Sarah's father works at DoSelect as a Programmer. He came to Sarah with one condition, he wants Sarah to code something related to "AMSTERDAM" and if she does it correctly, she will be allowed to go.

Sarah's father gave a string and wants her to write a function that returns the number of times "am" appears in the String ignoring the case

Sarah is not so good at programming and needs your help.

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 are public unless mentioned otherwise.

Specifications

```
class definitions:
  class InAmsterdam:
  countAm(String str):
   return type: int
  visibility: public
```

Task:

class InAmsterdam

Implement the below method for this class:

int countAm(String str): return the number of times "am" appears in the String ignoring the case

Sample Input

```
I Am in Amsterdam am I?
```

Sample Output

2

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



Minor quality violations

Quality score: 3.0

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 class InAmsterdam {
8 //Write Your Code Here..
9
     public int countAm(String str){
10
         String lowercaseStr=str.toLowerCase();
11
         String [] words=lowercaseStr.split("\\s+");
12
         int count=0;
         for(String wd:words)
13
14
15
             if(wd.equals("am"))
16
17
                 count++:
18
19
         }
20
         return count;
21
22 }
23
24 public class Source {
25
           public static void main(String args[] ) throws Exception {
26
                   /* Enter your code here. Read input from STDIN. Print output to STDOUT */
27
                  InAmsterdam inAm=new InAmsterdam();
                  String str="I Am in Amsterdam am I?";
28
29
                  int count=inAm.countAm(str);
30
                  System.out.println(count);
31
           }
32 }
```

Evaluation Details

```
Test_countAm_3 (weight:1)

Status Passed
Execution time 2.69s
CPU 0s
Memory 1MB
```

Description Testcase passed!

Test_countAm_2 (weight:1)

StatusPassedExecution time2.69sCPU0sMemory1MB

Description Testcase passed!

Test_InAmsterdam (weight:1)

StatusPassedExecution time2.63sCPU0sMemory1MB

Description Testcase passed!

Test_countAm_4 (weight:1)

StatusPassedExecution time2.58sCPU0sMemory1MB

Description Testcase passed!

Sample_TC (sample)

StatusPassedExecution time3.73sCPU0sMemory1MB

Description Testcase passed!

Test_countAm_1 (weight:1)

Status Passed

Execution time 2.74s

CPU 0s

Memory 1MB

Description Testcase passed!