

## 1. Vowels\_Consonants\_Count

```
4 public class Vowels_Consonants_Count {
5
6     public static void main(String[] args) {
7         Scanner sc=new Scanner(System.in);
8         System.out.print("Enter Input: ");
9         String str=sc.nextLine();
10        int vowel=0,consonent=0;
11        for(int i=0;i<str.length();i++)
12        {
13            char ch=str.charAt(i);
14            if(Character.isLetter(ch))
15            {
16                if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u')
17                    vowel+=1;
18                else
19                    consonent+=1;
20            }
21        }
22        System.out.println("Vowels="+vowel+"\nConsonent="+consonent);
23    }
24 }
25
26 }
27
```

Problems @ Javadoc Declaration Console ×

<terminated> Vowels\_Consonants\_Count [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17  
Enter Input: Hello World  
Vowels=3  
Consonent=7

## 2. Unique\_Characters

```
1 package com.package2;
2 import java.util.*;
3 import java.lang.*;
4
5 public class Unique_Characters {
6
7     public static void main(String[] args) {
8         Scanner sc=new Scanner(System.in);
9         System.out.print("Enter Input: ");
10        String str=sc.nextLine();
11        StringBuilder result = new StringBuilder();
12
13        for (int i=0; i<str.length();i++) {
14            char ch = str.charAt(i);
15            if (result.indexOf(String.valueOf(ch))!=-1)
16            {
17                result.append(ch);
18            }
19        }
20        System.out.println(result);
21    }
22 }
23 }
24
```

Problems @ Javadoc Declaration Console ×

<terminated> Unique\_Characters [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17  
Enter Input: xperience  
xperinc

### 3. Travel\_Agencies

```
29     }
30
31
32
33     public static void main(String[] args) {
34         Travel_Agencies ob1=new Travel_Agencies(123,"A2Z Agency","Platinum",50000,true);
35         Travel_Agencies ob2=new Travel_Agencies(345,"SSS Agency","Gold",30000,false);
36         Travel_Agencies ob3=new Travel_Agencies(987,"cos and Kings","Diamond",40000,true);
37         Travel_Agencies ob4=new Travel_Agencies(888,"Global tours","Gold",20000,false);
38         Travel_Agencies ag[]={ob1,ob2,ob3,ob4};
39         System.out.println(findAgencyWithHighestPackagePrice(ag));
40
41         Travel_Agencies res=agencyDetailsForGivenIdAndType(ag,987,"Diamond");
42         if (res != null) {
43             System.out.println(res.get_agencyName() + ":" + res.get_price());
44         } else {
45             System.out.println("No matching agency found.");
46         }
47     }
48 }
49
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51
52
```

Problems Javadoc Declaration Console ×

<terminated> Solution [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208  
50000  
cos and Kings:40000

### 4. Space\_Character\_Count

```
11     int flag=0;
12     int prev=1000;
13     char res='\0';
14     for(int i=0;i<str.length();i++)
15     {
16         char ch=str.charAt(i);
17
18         if((ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u') && ((int)ch)<prev)
19         {
20             prev=(int)ch;
21             res=ch;
22             flag=1;
23         }
24     }
25
26     if(flag==1)
27         System.out.println(res);
28     else
29         System.out.println("Vowel do not exist");
30
31 }
32
33 }
34
```

Problems Javadoc Declaration Console ×

<terminated> Space\_Character\_Count [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\javaw.  
Enter Input: matrix  
a

## 5. Reverse\_String

```
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class Reverse_String {
6
7     public static void main(String[] args) {
8
9         Scanner sc=new Scanner(System.in);
10        System.out.print("Enter Input: ");
11        String str=sc.nextLine();
12
13        StringBuilder reversed = new StringBuilder();
14        for (int i=str.length()-1;i>=0;i--)
15        {
16            char ch=Character.toLowerCase(str.charAt(i));
17            reversed.append(ch);
18        }
19        System.out.println(reversed);
20    }
21 }
22 }
23 }
```

Problems @ Javadoc Declaration Console ×

<terminated> Reverse\_String [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86\_64\_17.0

Enter Input: WelCome

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## 6. Reverse\_Number

```
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class Reverse_Number {
6
7     public static void main(String[] args) {
8
9
10        Scanner sc=new Scanner(System.in);
11        System.out.print("Enter Input: ");
12        int num=sc.nextInt();
13        int reversed=0;
14        while(num!=0){
15            int digit=num%10;
16            reversed=reversed*10+digit;
17            num/=10;
18        }
19        System.out.println(reversed);
20    }
21 }
22 }
23 }
```

Problems @ Javadoc Declaration Console ×

<terminated> Reverse\_Number [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v202

Enter Input: 12345

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## 7. Perfect\_Square

```
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class Perfect_Number {
6
7     public static void main(String[] args) {
8         Scanner sc=new Scanner(System.in);
9         System.out.print("Enter Input: ");
10        int num=sc.nextInt();
11
12        if(num>0) {
13            int sqrt=(int)Math.sqrt(num);
14            if(sqrt*sqrt==num)
15                System.out.println("TRUE");
16            else
17                System.out.println("FALSE");
18        }
19    }
20 }
21
22 }
23
```

Problems Javadoc Declaration Console ×

<terminated> Perfect\_Number [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\javaw.exe  
Enter Input: 9  
TRUE

## 8. Associate\_For\_Given\_Technology

```
Vowels_Conso... Solution.java Space_Chara... Sim.java SolutionSim... Reverse_Str... Reverse_Numb... Perfect_Numb... Associate
1 package com.package2;
2 import java.util.*;
3
4 import com.package2.Associate;
5 public class Solution_Associate {
6
7     private static final int NULL = 0;
8
9     public static Associate[] associatesForGivenTechnology(Associate ass[], String searchTech) {
10        List<Associate> res=new ArrayList<>();
11        for(int i=0;i<ass.length;i++)
12        {
13            if(searchTech.equalsIgnoreCase(ass[i].getTechnology()) && ass[i].getExperienceInYears()%5==0)
14            {
15                res.add(ass[i]);
16            }
17        }
18        return res.toArray(new Associate[0]);
19    }
20
21    public static void main(String[] args) {
22        Scanner sc=new Scanner(System.in);
23        Associate ass1=new Associate(101,"Alex","java",15);
24    }
25 }
```

Problems Javadoc Declaration Console ×

<terminated> Solution\_Associate [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\javaw.exe  
java  
101  
104

## 9. Autonomous car

```
47
48     String searchEnv = sc.nextLine();
49     String searchBrand = sc.nextLine();
50
51     int total=findTestPassedByEnv(cars,searchEnv);
52     if(total>0) {
53         System.out.println(total);
54     }
55     else {
56         System.out.println("There are no tests passed in this particular environment");
57     }
58
59
60     AutonomousCar carWithUpdatedGrade=updateCarGrade(cars, searchBrand);
61     if (carWithUpdatedGrade!=null) {
62         System.out.println(carWithUpdatedGrade.getBrand() + ":" + carWithUpdatedGrade.getGrade());
63     } else {
64         System.out.println("No Car is available with the specified brand");
65     }
66
67
68
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70 }
```

Problems Javadoc Declaration Console x

<terminated> SolutionCar [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\j

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Mercedes  
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Mercedes:A1

## 10. OddPositionCharacter

```
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class OddPositionCharacter {
6
7     public static void main(String[] args) {
8         Scanner sc=new Scanner(System.in);
9         String str=sc.nextLine();
10         for (int i=1;i<str.length();i+=2) {
11             System.out.print(str.charAt(i));
12         }
13
14     }
15
16 }
17
```

Problems Javadoc Declaration Console x

<terminated> OddPositionCharacter [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\j

Hey there!  
e hr!

## 11. Data Transmission

```
Reverse_Str... Reverse_Numb... Perfect_Numb... Associate.java Solution_Ass... AutonomousC... SolutionCar... OddPosition...
3=import java.util.ArrayList;
4 import java.util.Collections;
5 import java.util.List;
6 import java.util.Scanner;
7
8 public class Data_Transmission {
9     public static boolean isPrime(int number) {
10         if (number<=1) {
11             return false;
12         }
13         for(int i=2;i<=Math.sqrt(number);i++) {
14             if(number%i==0) {
15                 return false;
16             }
17         }
18         return true;
19     }
20
21
22     public static void main(String[] args) {
23         Scanner sc=new Scanner(System.in);
24         String input=sc.nextLine();
25         input=input.replace(";", "");
26         String stringNum[]=input.split(" ");
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```

### 13. Device\_Management

```
Vowels_Conso... Unique_Char... Travel_Agen... Solution.java Space_Chara... Sim.java SolutionSim... Inventory
32     }
33
34     Phone phone=getPhoneIdBasedOnOs(ph,os);
35     if(phone!=null)
36     {
37         System.out.println(phone.getPhoneId());
38     }
39     else
40     {
41         System.out.println("No phones are available ");
42     }
43
44 }
45
46 private static Phone getPhoneIdBasedOnOs(Phone[] ph, String os) {
47     for(Phone phone:ph)
48     {
49         if(phone.getOs().equalsIgnoreCase(os) && phone.getPrice()>=50000)
50         {
51             return phone;
52         }
53     }
54     return null;
55 }
```

Problems Javadoc Declaration Console x

<terminated> SolutionPhone [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-  
HTC  
89000  
444  
Android  
Vivo  
42000  
Blackberry  
android  
The given Brand is not available  
222

### 14. Institution

```
Vowels_Conso... Unique_Char... Travel_Agen... Solution.java SolutionSim... Inventory.java Phone.java SolutionPho... Institution...
42     }
43
44 private static Institution updateInstitutionGrade(Institution[] institutions, String institutionName) {
45     for (Institution i:institutions) {
46         if (i.getInstitutionName().equalsIgnoreCase(institutionName)) {
47             int rating=(i.getNoOfStudentsPlaced()*100)/i.getNoOfStudentsCleared();
48             if(rating>=80)
49             {
50                 i.setGrade("A");
51             } else
52             {
53                 i.setGrade("B");
54             }
55             return i;
56         }
57     }
58     return null;
59 }
```

Problems Javadoc Declaration Console x

<terminated> SolutionInstitution [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\javaw.exe (C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\javaw.exe)  
333  
AppleTech  
10000  
12000  
Chennai  
444  
Aruna  
6000  
10000  
Vellore  
Chennai  
karunya  
22000  
karunya:A

## 15. Inventory

```
23     for (Inventory inv : result) {
24         int threshold = inv.getThreshold();
25         String fillingType;
26         if(threshold>75)
27         {
28             fillingType = "Critical Filling";
29         }
30         else
31         if(threshold>=50) {
32             fillingType="Moderate Filling";
33         }
34         else
35         {
36             fillingType="Non-Critical Filling";
37         }
38         System.out.println(inv.getId()+" "+fillingType);
39     }
```

Problems Javadoc Declaration Console ×

<terminated> SolutionInventory [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208

200  
60  
40  
3  
150  
35  
45  
4  
80  
45  
40  
45  
2 Non-Critical Filling  
3 Non-Critical Filling  
4 Non-Critical Filling

## 16. Medicine\_get\_price\_by\_disease

```
13     }
14 }
15
16
17 public static void main(String[] args) {
18     Scanner sc=new Scanner(System.in);
19     Medicine[] m=new Medicine[4];
20     for (int i=0;i<4;i++)
21     {
22         String medicineName=sc.nextLine();
23         String batch=sc.nextLine();
24         String disease=sc.nextLine();
25         int price=sc.nextInt();
26         sc.nextLine();
27         m[i]=new Medicine(medicineName,batch,disease,price);
28     }
29     String disease=sc.nextLine();
```

Problems Javadoc Declaration Console ×

<terminated> SolutionMedicine [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\javaw.exe (31

paracetamol  
PAC545B  
bodypain  
150  
almox  
ALM747S  
fever  
200  
aspirin  
ASP849Q  
flue  
250  
fever  
100  
200



## 17. Movie\_Find\_Avg\_Budget\_By\_Director

```
SolutionInv... JdbcInsert.java Medicine.java SolutionMed... Movie.java SolutionMov... Movie1.java SolutionMov... x 22
42 int sumBudget = 0;
43 int count = 0;
44 for (Movie1 movie : movieArray) {
45     if (movie.getDirector().equalsIgnoreCase(director)) {
46         sumBudget += movie.getBudget();
47         count++;
48     }
49 }
50 if (count == 0) {
51     return 0;
52 }
53 return (double) sumBudget / count;
54 }
55
56 public static Movie1 getMovieByRatingBudget(Movie1[] movieArray, int rating, int budget) {
57     for (Movie1 movie : movieArray) {
58         if (movie.getRating() == rating && movie.getBudget() == budget) {
59             if (budget % rating == 0) {
60                 return movie;
61             }
62         }
63     }
64     return null;
65 }

Problems Javadoc Declaration Console x
<terminated> SolutionInv... [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\ja
5
300
GVM
5
300
200
1401
```

## 18. Movie\_Get\_Movie\_By\_Genre

```
Institution... SolutionIns... SolutionInv... JdbcInsert.java Medicine.java SolutionMed... Movie.java SolutionMov... x 20
38 }
39 }
40 }
41 }
42 }
43 /*
44 * aaa
45 Marvel
46 Action
47 250000000
48 bbb
49 Marvel
50 Comedy
51 25000000
52 ccc
53 Marvel
54 Comedy
55 2000000
56 ddd
57 Marvel
58 Action
59 300000000
60 Action*/
61

Problems Javadoc Declaration Console x
<terminated> SolutionMovie [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bi
ddd
Marvel
Action
300000000
Action
High Budget Movie
High Budget Movie
```

## 19. NavalVessel

```
41     int sumVoyages = 0;
42     int count = 0;
43     for (NavelVessel vessel : vessels) {
44         int pct = (vessel.getNoOfVoyagesCompleted() * 100) / vessel.getNoOfVoyagesPlanned();
45         if (pct >= percentage) {
46             sumVoyages += vessel.getNoOfVoyagesCompleted();
47             count++;
48         }
49     }
50     if (count == 0) {
51         return 0;
52     }
53     return (double) sumVoyages / count;
54 }
55
56 public static NavelVessel findVesselByGrade(NavelVessel[] vessels, String purpose) {
57     for (NavelVessel vessel : vessels) {
58         if (vessel.getPurpose().equalsIgnoreCase(purpose)) {
59             int pct = (vessel.getNoOfVoyagesCompleted() * 100) / vessel.getNoOfVoyagesPlanned();
60             if (pct == 100) {
61                 vessel.setClassification("Star");
62             } else if (pct >= 80) {
63                 vessel.setClassification("Leader");
64             }
65         }
66     }
67     return vessels;
68 }
```

Problems Javadoc Declaration Console x

<terminated> SolutionVessel [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\javaw.exe

500  
500  
Welfare  
75  
Army  
300  
Yashwin%Inspirer

## 20. Player\_Get\_Average\_of\_Runs

```
9
10     for (int i=0;i<4;i++) {
11         int id=sc.nextInt();
12         sc.nextLine();
13         String name=sc.nextLine();
14         int iccRank=sc.nextInt();
15         int matchesPlayed=sc.nextInt();
16         int runsScored=sc.nextInt();
17         players[i]=new Player(id, name, iccRank, matchesPlayed, runsScored);
18     }
19
20     int target=sc.nextInt();
21     double[] averageRuns=findAverageOfRuns(players, target);
22
23     for (double avg:averageRuns) {
24         if (avg >= 80 && avg <= 100) {
25             System.out.println("Grade A");
26         } else if (avg >= 50 && avg < 80) {
27             System.out.println("Grade B");
28         } else {
29             System.out.println("Grade C");
30         }
31     }
32 }
```

Problems Javadoc Declaration Console x

<terminated> SolutionPlayer [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.2.v20220201-1208\jre\bin\javaw.exe

15  
57  
4400  
100  
Grade A  
Grade A  
Grade B

## 21. Player\_Get\_Player\_Based\_On\_Level

```
Movie.java  Movie1.java  SolutionMov...  NavelVessel...  SolutionVess...  Player.java  SolutionPlay...  Player1.java
1 package com.package2;
2 import java.util.*;
3 public class SolutionPlayer1 {
4     public static void main(String[] args) {
5         Scanner sc=new Scanner(System.in);
6         Player1[] players = new Player1[4];
7
8         for (int i=0;i<4;i++) {
9             int playerId=sc.nextInt();
10            sc.nextLine();
11            String skill=sc.nextLine();
12            String level=sc.nextLine();
13            int points=sc.nextInt();
14            players[i]=new Player1(playerId, skill, level, points);
15        }
16    }

```

```
Problems  Javadoc  Declaration  Console x
<terminated> SolutionPlayer1 [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-
102
Cricket
Intermediate
25
111
Football
Intermediate
50
113
BaseBall
Advanced
100
Cricket
Intermediate
45
102

```

## 22. Sim\_Transfer\_Circle

```
Sim.java  SolutionSim... x  SolutionMov...  NavelVessel...  SolutionVess...  Player.java  SolutionPlay...  Player1.java  SolutionPlay...
24 Sim[] result = transferCircle(sims, circle1, circle2);
25 for (Sim sim : result) {
26     System.out.println(sim.getSimId() + " " + sim.getCustomerName() + " " + sim.getCircle() + " " + sim.ge
27 }
28 }
29
30 public static Sim[] transferCircle(Sim[] sims, String circle1, String circle2) {
31     ArrayList<Sim> matchingSims = new ArrayList<>();
32
33     for (Sim sim : sims) {
34         if (sim.getCircle().equalsIgnoreCase(circle1)) {
35             matchingSims.add(new Sim(sim.getSimId(), sim.getCustomerName(), sim.getBalance(), sim.getRatePerSe
36         }
37     }
38
39     matchingSims.sort(Comparator.comparingDouble(Sim::getRatePerSecond).reversed());

```

```
Problems  Javadoc  Declaration  Console x
<terminated> SolutionSim [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (31-May
4
shubham
640
3.21
ahd
5
kalpesh
150
1.8
ahd
ahd
kol
4 shubham kol 3.21
2 sachin kol 2.26
5 kalpesh kol 1.8

```

## 23. SmallestVowelFinder

```
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class SmallestVowelFinder {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8         System.out.println("Enter a string:");
9         String input = scanner.nextLine().toLowerCase();
10        char smallestVowel = findSmallestVowel(input);
11        System.out.println("The smallest vowel in the given string is: " + smallestVowel);
12    }
13
14    public static char findSmallestVowel(String str) {
15        char smallestVowel = Character.MAX_VALUE;
16    }
```

Problems Javadoc Declaration Console x

<terminated> SmallestVowelFinder [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86\_64\jre\bin\javaw.exe (31-May-2022 10:00:00 AM)  
Enter a string:  
matrix  
The smallest vowel in the given string is: a

## 24. Sim\_Match\_Sort

```
18 String searchCircle= sc.nextLine();
19 double searchRate=sc.nextDouble();
20
21
22 int[] resultIds=matchAndSort(sims, searchCircle, searchRate);
23 for (int id : resultIds) {
24     System.out.println(id);
25 }
26 }
27
28 public static int[] matchAndSort(Siml[] sims, String searchCircle, double searchRate) {
29
30     Siml[] filteredSims = Arrays.stream(sims)
31         .filter(sim -> sim.getCircle().equalsIgnoreCase(searchCircle) && sim.getRatePerSec() > searchRate)
32         .toArray(Siml[]::new);
33 }
```

Problems Javadoc Declaration Console x

<terminated> SolutionSim1 [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86\_64\jre\bin\javaw.exe (31-May-2022 10:00:00 AM)  
airtel  
500  
2.54  
mumbai  
4  
vodafone  
640  
3.21  
mumbai  
mumbai  
3.4  
4  
3  
1  
2