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dotprep

MCQ Coding

01:36:13 End Test

Question 1/15

Given two strings s and t, return true if t is an anagram of s, and false otherwise.

An Anagram is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.

**Input:** s = "anagram", t = "nagaram"  
**Output:** true

**Input:** s = "rat", t = "car"  
**Output:** false

**Input Format:**

- The user is prompted to enter the first string.
- The user is prompted to enter the second string.

Sample Input 1:

listen  
silent

Sample Output 1:

Are "listen" and "silent" anagrams?  
true

Sample Input 2:

Sample Output 2:

Tab Switches: N/A

Next

Ln 1: Col 1

AI Debug

```
1 // editor1
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         String a=sc.nextLine().toLowerCase();
7         String b=sc.nextLine().toLowerCase();
8         System.out.print("Are \""+a+"\" and \""+b+"\" anagrams?" );
9         char[] c=a.toCharArray();
10        char[] d=b.toCharArray();
11        Arrays.sort(c);
12        Arrays.sort(d);
13        boolean f=Arrays.equals(c,d);
14        if(f){
15            System.out.print(" true");
16        }
17        else{
18            System.out.print(" false");
19        }
20    }
21 }
```

Verify

Submit

Ln 17: Col 19

AI Debug



```
1 // editor2
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         String s=sc.nextLine();
7         char c=' ';
8         int f=0;
9         int k=0;
10        char c1[] =s.toCharArray();
11        for(int i=0;i<c1.length;i++){
12            if(c1[i]>='a' && c1[i]<='z') {
13                k=0;
14            }
15            else{
16                k=1;
17                break;}}
18        if(k==1){
19            System.out.println("Invalid input: Please enter a string without numbers.");
20            return;}
21        else{
22            for(int i=0;i<s.length();i++){
23                boolean unique=true;
24                for(int j=0;j<s.length();j++){
25                    if(i!=j && s.charAt(i) == s.charAt(j)){
26                        unique=false;}
27                }
28                if(unique){
29                    c=s.charAt(i);
30                    f=1;
31                    break;}}
32            if(f==1){
33                System.out.print(c);}
34            else{
35                System.out.println("No non-repeating character found.");
36            }
37        }
38    }
39 }
```

Verify

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dotprep

MCQ Coding

02:01:34 End Test

Question 3/15

Imagine you're developing a utility to determine users' current ages for a registration platform. Develop a program that prompts users to input their birth year.

**Input Format:**

- Users prompt to enter their birth year as an integer.

**Output Format:**

- The program displays the user's current age as an integer.
- If the input contains negative value, the program displays "Invalid input. Birth year cannot be negative".

Sample Input 1:

1998

Sample Output 1:

26

Sample Input 2:

Sample Output 2:

Tab Switches: N/A

Prev Next

Verify

Submit

Ln 1: Col 1

AI Debug

```
1 // editor3
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         int n=sc.nextInt();
7         if(n>=0){
8             int m=2024-n;
9             System.out.println(m);
10        }
11        else{
12            System.out.println("Invalid input. Birth year cannot be negative.");
13        }
14    }
15 }
```

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dotprep

MCQ Coding

02:02:00 End Test

Question 4/15

You're developing a date utility for month validation. Your task is to implement a program that prompts users to input a month and a year. The program calculates and displays the number of days in that month, aiding in date validation.

**Input Format:**

- Prompts the users enter the month and year as integers.

**Output Format:**

- The program displays the number of days in the specified month as an integer.

Sample Input 1:

7  
1998

Sample Output 1:

31

Sample Input 2:

Sample Output 2:

Tab Switches: N/A

Prev Next

Verify

Submit

Ln 1: Col 1

AI Debug

1 // editor4

2 import java.util.\*;

3 class Main{

4 public static void main(String[] args){

5 Scanner sc=new Scanner(System.in);

6 int m=sc.nextInt();

7 int y=sc.nextInt();

8 switch(m){

9 case 1: case 5: case 3: case 7: case 8: case 10: case 12:

10 System.out.println(31);

11 break;

12 case 6: case 4: case 9: case 11:

13 System.out.println(30);

14 break;

15 case 2:

16 if((y% 4==0)|| (y%400==0)){

17 System.out.println(29);

18 break;

19 }

20 else{

21 System.out.println(28);

22 break;

23 }

24 default:

25 System.out.println("Invalid input. Month must be between 1 and 12.");

26 }

27 }

28 }

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MCQ Coding

02:02:34 End Test

Question 5/15

You're developing a numeric utility for readability. Implement a program to convert the integer into proper numbers as thousands separators by commas. The program formats it with commas for thousands separators, aiding in readability.

**Input Format:**

- Prompts the users to enter a number as a double or integer.

**Output Format:**

- The program displays the formatted number with commas.

Sample Input 1:

12354

Sample Output 1:

12,354

Sample Input 2:

Sample Output 2:

Tab Switches: N/A

Prev Next

Ln 1: Col 1

AI Debug

```
1 // editor5
2 import java.util.*;
3 import java.text.*;
4 class Main{
5     public static void main(String[] args){
6         Scanner sc=new Scanner(System.in);
7         if(sc.hasNextDouble()){
8             double n=sc.nextDouble();
9             DecimalFormat f=new DecimalFormat("#,###");
10            String r=f.format(n);
11            System.out.print(r);
12        }
13        else{
14            System.out.println("Invalid input. Please enter a valid number.");
15        }
16    }
17 }
```

Verify

Submit

## In 1: Col 1

- Display the result of the operation performed on the two input numbers.
- Format the result appropriately based on whether it's an integer or decimal.

Sample Output 1 :

Result: 15.0

**Sample Output 2 :**

Tab Switches: N/A

[Prev](#)

Next

```

1 // editor6
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         float n1=sc.nextFloat();
7         float n2=sc.nextFloat();
8         char c=sc.next().charAt(0);
9         String s="Result: ";
10        switch(c){
11            case '+': System.out.println(s+(n1+n2)); break;
12            case '-': System.out.println(s+(n1-n2)); break;
13            case '*':
14                if (n2==0){
15                    System.out.println("Error: Division by zero.");
16                }
17                else
18                    System.out.println(s+(n1*n2)); break;
19            case '/': System.out.println(s+(n1/n2)); break;
20            default: System.out.println("Error: Invalid operation.");
21        }
22    }
23 }

```

Verify 

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MCQ Coding

02:03:26 End Test

Question 7/15

In a banking application, your task is to sort a list of account balances in ascending order to display the lowest balances first. Implement a program to sort the list of numbers in ascending order

**Input Format:**

- Prompts the user to enter the series of numbers.

**Output Format:**

- Displays the number in ascending order.

Sample Input 1:

5 2 9 1 8

Sample Output 1:

1 2 5 8 9

Sample Input 2:

Sample Output 2:

Tab Switches: N/A

Prev Next

Ln 1: Col 1

AI Debug

```
1 //
2 import java.util.*;
3 class Hari{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         String s=sc.nextLine();
7         String[] p=s.split(" ");
8         int l=p.length;
9         int ar[] =new int[l];
10        for(int i=0;i<l;i++){
11            ar[i]=Integer.parseInt(p[i]);
12        }
13        Arrays.sort(ar);
14        for(int i=0;i<l;i++){
15            System.out.print(ar[i]+" ");
16        }
17    }
18 }
```

Verify

Submit



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dotprep

MCQ Coding

02:03:50 End Test

Question 8/15

In a city planning software, you are tasked to develop a program to compute the area of circular parks based on their radii, ensuring accurate allocation of resources for landscaping and recreational facilities.

**Input Format:**

- Prompts the user to enter single numerical value representing the radius of the circle.

**Output Format:**

- A single numerical value representing the area of the circle calculated based on the provided radius.

Sample Input 1:

5

Sample Output 1:

Area of the circle: 78.53981633974483

Sample Input 2:

Sample Output 2:

Tab Switches: N/A

Prev Next

Verify

Submit

Ln 1: Col 1

```
1 // editor8
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         double d=sc.nextDouble();
7         double r=Math.PI*d*d;
8         System.out.println("Area of the circle: "+r);
9     }
10 }
```

AI Debug



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dotprep

MCQ Coding

02:04:04 End Test

Question 9/15

In a financial application, Your task is to implement a function to round transaction amounts to the nearest integer to ensure accurate representation of monetary values in reports and accounting records.

**Input Format:**

- A floating-point number representing the value to be rounded to the nearest integer.

**Output Format:**

- An integer representing the rounded value of the input floating-point number.

Sample Input 1:

5.7

Sample Output 1:

Rounded number: 6

Sample Input 2:

Sample Output 2:

Tab Switches: N/A

Prev Next

Verify

Submit

Ln 1: Col 1

AI Debug

```
1 // editor9
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         float n=sc.nextFloat();
7         System.out.println("Rounded number: "+Math.round(n));
8     }
9 }
```

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MCQ Coding

02:04:26 End Test

Question 10/15

As a developer, you're tasked with developing a program to calculate the deadline for a project. The project is due in 5 days. Develop a program that calculates the deadline of the project from the current date.

**Input Format:**

- Prompts the user to enter the input consists of the current date in the format "YYYY-MM-DD".

**Output Format:**

- The program displays the date when the project is due, also in the format "YYYY-MM-DD".

Sample Input 1:

2024-03-16

Sample Output 1:

The project is due on: 2024-03-21

Sample Input 2:

Sample Output 2:

Tab Switches: N/A

Prev Next

Verify

Submit

Ln 1: Col 1

AI Debug

```
1 // editor10
2 import java.util.*;
3 import java.time.*;
4 class Main{
5     public static void main(String[] args){
6         Scanner sc=new Scanner(System.in);
7         String a=sc.nextLine();
8         String[] b=a.split("-");
9         int[] arr=new int[b.length];
10        for(int i=0;i<b.length;i++){
11            arr[i]=Integer.parseInt(b[i]);
12        }
13        LocalDate dt=LocalDate.of(arr[0],arr[1],arr[2]);
14        dt=dt.plusDays(5);
15        System.out.print("The project is due on: "+dt);
16    }
17 }
```

Ln 26 : Col 18

AI Debug



```

2 import java.util.*;
3 class Main{
4     public static void zigzag(String str,int n){
5         if(n==1){
6             System.out.print(str);
7             return;
8         }
9         char[] str1=str.toCharArray();
10        int len= str.length();
11        String[] arr=new String[n];
12        Arrays.fill(arr,"");
13        int row=0;
14        boolean down=true;
15        for(int i=0;i<len;i++){
16            arr[row]+=str1[i];
17            if(row==n-1){
18                down=false;
19            }
20            else if(row==0){
21                down=true;
22            }
23            if(down){
24                row++;
25            }
26            else{
27                row--;
28            }
29            for(int i=0;i<n;i++){
30                System.out.print(arr[i]);
31            }
32        }
33        public static void main(String[] args){
34            Scanner sc=new Scanner(System.in);
35            String inp=sc.nextLine();
36            if(inp.matches("[a-zA-Z]+")){
37                System.out.println("Invalid input! The input should contain only letters.");
38                return;
39            }
40            int n=sc.nextInt();
41            zigzag(inp,n);
42        }
43    }
44 }

```

Verify

Submit

Ln 19: Col 25

AI Debug



```
1 // editor12
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         String s=sc.nextLine().toLowerCase();
7         int v=0,c=0;
8         for(int i=0;i<s.length()-1;i++){
9             if(s.charAt(i)==' '){
10                 System.out.println("Invalid input! The input should contain only letters.");
11                 return;
12             }
13             if(Character.isAlphabetic(s.charAt(i))){
14                 char ch=s.charAt(i),ch2=s.charAt(i+1);
15                 if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' && ch2=='a' || ch2=='e' || ch2=='i' || ch2=='o' || ch2=='u'){
16                     v++;
17                 }
18                 else if(!(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u') && !(ch2=='a' || ch2=='e' || ch2=='i' || ch2=='o' || ch2=='u')){
19                     c++;
20                 }
21                 else{
22                     System.out.println("Invalid input! The input should contain only letters.");
23                     return;
24                 }
25             }
26             if(v>5 || c>3){
27                 System.out.println("BAD");
28                 return;
29             }
30             else{
31                 System.out.println("GOOD");
32                 return;
33             }
34         }
35     }
36 }
```

Verify

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dotprep

MCQ Coding

02:06:25

End Test

Question 13/15

Given a string 's' consisting of words and spaces, you are required to write a function to find the length of the last word in the string.

A word is defined as a maximal substring consisting of non-space characters only.

**Input Format:**

- The program expects input from the user in the form of a string.
- The user is prompted to enter a string after running the program.
- The string can contain any printable characters including spaces.

**Output Format:**

- If the input string is valid and contains at least one non-space character.
- An integer representing the length of the last word in the string.

**Constraints:**

- The input string s may contain leading or trailing spaces, but the last word is always followed by zero or more spaces.

Sample Input 1:	Sample Output 1:
Hello World	5
Sample Input 2:	Sample Output 2:

Tab Switches: N/A

Prev Next

Ln 1: Col 1

AI Debug

```
1 // editor13
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         String s =sc.nextLine();
7         String[] m=s.split(" ");
8         System.out.println(m[m.length-1].length());
9     }
10 }
```

Verify

Submit

Press **Esc** to exit full screen

Ln 6: Col 9

AI Debug



```
1 // editor14\\
2 import java.util.*;
3 public class Main{
4     static String[] Units ={
5         "", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine", "Ten", "Eleven",
6         "Twelve", "Thirteen", "Fourteen", "Fifteen", "Sixteen", "Seventeen", "Eighteen", "Nineteen"
7     };
8     static String[] Tens ={
9         "", "", "Twenty", "Thirty", "Forty", "Fifty", "Sixty", "Seventy", "Eighty", "Ninety"
10    };
11    static String[] Thousands={
12        "", "Thousand", "Million", "Billion"
13    };
14    public static String convert(int num){
15        if(num==0){
16            return "Zero";
17        }
18        StringBuilder word=new StringBuilder();
19        int i=0;
20        while(num>0){
21            if(num%1000!=0){
22                word.insert(0, convertUnderThousand(num%1000)+Thousands[i]+" ");
23            }
24            num/=1000;
25            i++;
26        }
27        return word.toString().trim();
28    }
29    public static String convertUnderThousand(int num){
30        StringBuilder word=new StringBuilder();
31        if(num>=100){
32            word.append(Units[num/100]).append(" Hundred ");
33            num%=100;
34        }
35        if(num>=20){
36            word.append(Tens[num/10]).append(" ");
```

Verify

Submit

Press **Esc** to exit full screen

Ln 4: Col 29

AI Debug



```
20- while(num>0){
21-     if(num%1000!=0){
22-         word.insert(0,convertUnderThousand(num%1000)+Thousands[i]+" ");
23-     }
24-     num/=1000;
25-     i++;
26- }
27- return word.toString().trim();
28- }
29- public static String convertUnderThousand(int num){
30-     StringBuilder word=new StringBuilder();
31-     if(num>=100){
32-         word.append(Units[num/100]).append(" Hundred ");
33-         num%=100;
34-     }
35-     if(num>=20){
36-         word.append(Tens[num/10]).append(" ");
37-         num%=10;
38-     }
39-     if(num>0){
40-         word.append(Units[num]).append(" ");
41-     }
42-     return word.toString();
43- }
44- public static void main(String[] args){
45-     Scanner sc=new Scanner(System.in);
46-     int num=sc.nextInt();
47-     if(num>0 || num<1000000000){
48-         System.out.println(convert(num));
49-     }
50-     if(num<0 || num>1000000000){
51-         System.out.println("Invalid input: Number must be a non-negative integer less than 1 billion.");
52-     }
53- }
54- }
55- }
```

Verify

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dotprep

MCQ Coding

02:07:32 End Test

Question 15/15

You are developing a text editing tool as part of a larger software suite. Users of your application often need to replace specific characters within their text. To enhance user experience, you decide to implement a feature that allows users to input a string and specify a character to be replaced. Your program will then use the `replace()` method of the `StringBuffer` class to perform the character replacement and display the modified string.

**Input Format:**

- User inputs a string (`inputString`).
- User inputs a character (`charToReplace`).
- User inputs a replacement string (`replacementString`).

**Output Format:**

- Displays the original string entered by the user.
- Displays the modified string after replacing all occurrences of the specified character with the replacement string.
- Displays "Invalid input: Please enter a single character" for single character

Sample Input 1:	Sample Output 1:
Hello, world! o 00	Hello, world! Hell00rld!
Sample Input 2:	Sample Output 2:

Tab Switches: N/A

Prev

Verify

Submit

Ln 1: Col 1

```
1 // editor15
2 import java.util.*;
3 class Main{
4     public static void main(String[] args){
5         Scanner sc=new Scanner(System.in);
6         String a =sc.nextLine();
7         String b=sc.nextLine();
8         String c=sc.nextLine();
9         if(b.length()!=1){
10             System.out.println("Invalid input: Please enter a single character.");
11             return;
12         }
13         System.out.println(" "+a);
14         int d=a.indexOf(b);
15         int e=a.lastIndexOf(b);
16         StringBuilder sb=new StringBuilder(a);
17         sb.replace(d,e+1,c);
18         System.out.println(sb.toString());
19     }
20 }
```

AI Debug