

Question 3

Correct

Marked out of 5.00

☐ Flag question

You and your friend are movie fans and want to predict if the movie is going to be a hit!

The movie's success formula depends on 2 parameters:

the acting power of the actor (range 0 to 10)

the critic's rating of the movie (range 0 to 10)

The movie is a hit if the acting power is excellent (more than 8) or the rating is excellent (more than 8). This holds true except if either the acting power is poor (less than 2) or rating is poor (less than 2), then the movie is a flop. Otherwise the movie is average.

Write a program that takes 2 integers:

the first integer is the acting power

second integer is the critic's rating.

You have to print Yes if the movie is a hit, Maybe if the movie is average and No if the movie is flop.

Example input:

9 5

Output:

Yes

Example input:

1 9

Output:

No

Quiz navigation



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Question 1

Correct

Marked out of 1.00

☐ Flag question

<b>Status</b>	Finished
<b>Started</b>	Tuesday, 5 November 2024, 8:46 PM
<b>Completed</b>	Tuesday, 5 November 2024, 10:46 PM
<b>Duration</b>	2 hours

Given an ArrayList, the task is to get the first and last element of the ArrayList in Java.

Input: ArrayList = [1, 2, 3, 4]  
Output: First = 1, Last = 4

Input: ArrayList = [12, 23, 34, 45, 57, 67, 89]  
Output: First = 12, Last = 89

**Approach:**

1. Get the ArrayList with elements.
2. Get the first element of ArrayList using the get(index) method by passing index = 0.
3. Get the last element of ArrayList using the get(index) method by passing index = size - 1.

**Answer:** (penalty regime: 0 %)

```
import java.util.ArrayList;  
import java.util.Scanner;
```

Quiz navigation



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Question 1

Correct

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Status Finished

Started Saturday, 5 October 2024, 1:41 PM

Completed Saturday, 5 October 2024, 1:48 PM

Duration 7 mins 47 secs

Write a program to find whether the given input number is Odd.

If the given number is odd, the program should return 2 else it should return 1.

Note: The number passed to the program can either be negative, positive or zero. Zero should NOT be treated as Odd.

For example:

Input	Result
123	2
456	1

Answer: (penalty regime: 0 %)

```
import java.util.Scanner;

public class CheckOddEven {
    public static int checkOddOrEven(int num) {
```

Question **3**  
Correct  
Marked out of 5.00  
☐ Flag question

Create a class Mobile with constructor and a method basicMobile().  
Create a subclass CameraMobile which extends Mobile class , with constructor and a method newFeature().  
Create a subclass AndroidMobile which extends CameraMobile, with constructor and a method androidMobile().  
display the details of the Android Mobile class by creating the instance. .

```
class Mobile{  
  
}  
class CameraMobile extends Mobile {  
  
}  
class AndroidMobile extends CameraMobile {  
  
}
```

expected output:

Basic Mobile is Manufactured  
Camera Mobile is Manufactured  
Android Mobile is Manufactured  
Camera Mobile with 5MG px  
Touch Screen Mobile is Manufactured

**For example:**

Warning: these links will not save your answers. Use the next button at the bottom of the page.

1 2 3

Finish attempt ...

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Question 1

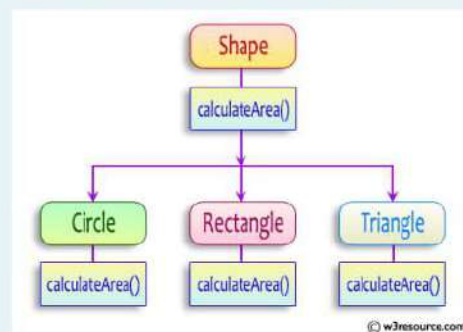
Correct

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Create a base class Shape with a method called calculateArea(). Create three subclasses: Circle, Rectangle, and Triangle. Override the calculateArea() method in each subclass to calculate and return the shape's area.

In the given exercise, here is a simple diagram illustrating polymorphism implementation:



```
abstract class Shape {  
    public abstract double calculateArea() ;  
}
```

System.out.printf("Area of a Triangle :%.2f\n",((0.5)\*base\*height)); // use this statement

```
currentSum = 0;
} else { // Number is negative
    if (currentLength > maxLength) {
        maxLength = currentLength;
        maxSum = currentSum;
    } else if (currentLength == maxLength) {
        maxSum = currentSum;
    }
}
```

	Input	Expected	Got	
✓	16 -12 -16 12 18 18 14 -4 -12 -13 32 34 -5 66 78 78 -79	62	62	✓
✓	11 -22 -24 -16 -1 -17 -19 -37 -25 -19 -93 -61	-1	-1	✓
✓	16 -58 32 26 92 -10 -4 12 0 12 -2 4 32 -9 -7 78 -79	174	174	✓

Passed all tests! ✓

REC-CIS

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```
this.studentName=studentName;
this.department=department;
}

public String toString() {
    return "CollegeName : "+collegeName+"\n"+"StudentName : 
(studentName)+"\n"+"Department : "+department;
}
}
```

	Expected	Got	
✓	A student admitted in REC CollegeName : REC StudentName : Venkatesh Department : CSE	A student admitted in REC CollegeName : REC StudentName : Venkatesh Department : CSE	✓

Passed all tests! ✓



Quiz navigation



Show one page at a time

Finish review

Question 1

Incorrect

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☐ Flag question

You are provided a string of words and a 2-digit number. The two digits of the number represent the two words that are to be processed.

For example:

If the string is "Today is a Nice Day" and the 2-digit number is 41, then you are expected to process the 4th word ("Nice") and the 1st word ("Today").

The processing of each word is to be done as follows:

Extract the Middle-to-Begin part: Starting from the middle of the word, extract the characters till the beginning of the word.

Extract the Middle-to-End part: Starting from the middle of the word, extract the characters till the end of the word.

If the word to be processed is "Nice":

Its Middle-to-Begin part will be "iN".

Its Middle-to-End part will be "ce".

So, merged together these two parts would form "iNce".

Similarly if the word to be processed is "Today".



Question **3**

Correct

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Given an array of numbers, you are expected to return the sum of the longest sequence of POSITIVE numbers in the array.

If there are NO positive numbers in the array, you are expected to return -1.

In this question's scope, the number 0 should be considered as positive.

Note: If there are more than one group of elements in the array having the longest sequence of POSITIVE numbers, you are expected to return the total sum of all those POSITIVE numbers (see example 3 below).

input1 represents the number of elements in the array.

input2 represents the array of integers.

Example 1:

input1 = 16

input2 = {-12, -16, 12, 18, 18, 14, -4, -12, -13, 32, 34, -5, 66, 78, 78, -79}

Expected output = 62

Explanation:

The input array contains four sequences of POSITIVE numbers, i.e. "12, 18, 18, 14", "12", "32, 34", and "66, 78, 78". The first sequence "12, 18, 18, 14" is the longest of the four as it contains 4 elements. Therefore, the expected output = sum of the longest sequence of POSITIVE numbers =  $12 + 18 + 18 + 14 = 63$ .

Example 2:

Question 3  
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Create a Class Mobile with the attributes listed below,

```
private String manufacturer;  
private String operating_system;  
public String color;  
private int cost;
```

Define a Parameterized constructor to initialize the above instance variables.

Define getter and setter methods for the attributes above.

for example : setter method for manufacturer is

```
void setManufacturer(String manufacturer){  
    this.manufacturer= manufacturer;  
}
```

```
String getManufacturer(){  
    return manufacturer;}  
}
```

Display the object details by overriding the toString() method.

For example:

Test	Result
1	manufacturer = Redmi operating_system = Andriod color = Blue

```
// Geller and seller for manufacturer  
public void setManufacturer(String manufacturer) {
```

	Test	Expected	Got	
✓	1	manufacturer = Redmi operating_system = Android color = Blue cost = 34000	manufacturer = Redmi operating_system = Android color = Blue cost = 34000	✓

Passed all tests! ✓

Save the state of the flags

Finish review

← Lab-04-MCQ

Jump to...  
Go

Number of Primes in a specified range

```
return 2 * Math.PI * radius; }  
  
// Method to calculate the circumference of the circle  
public double calculateCircumference() {  
    return 2 * Math.PI * radius;  
}
```

	Test	Input	Expected	Got	
✓	1	4	Area = 50.27 Circumference = 25.13	Area = 50.27 Circumference = 25.13	✓
✓	2	6	Area = 113.10 Circumference = 37.70	Area = 113.10 Circumference = 37.70	✓
✓	3	2	Area = 12.57 Circumference = 12.57	Area = 12.57 Circumference = 12.57	✓

Passed all tests! ✓

Question 2

Create a class Student with two private attributes name and roll number. Create three objects by invoking different

```
return -1;

int count = 0; // initialize result

// Keep dividing n by powers of 5 and update count
for (int i = 5; n / i > 1; i *= 5) {
    count += n / i;
}

return count;
}
```

	Input	Expected	Got	
✓	3	0	0	✓
✓	60	14	14	✓
✓	100	24	24	✓
✓	1024	253	253	✓

Passed all tests! ✓

```
// Generate and print the nth sequence
List<Integer> result = generateSequence(n);
for (int num : result) {
    System.out.print(num + " ");
}

scanner.close();
}
```

	Input	Expected	Got	
✓	1	1	1	✓
✓	2	1 2 1	1 2 1	✓
✓	3	1 2 1 3 1 2 1	1 2 1 3 1 2 1	✓
✓	4	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1	✓

Passed all tests! ✓



	Input	Expected	Got	
✓	4 1 5 6 9	-72 -36 -27 0	-72 -36 -27 0	✓
✓	5 10 87 63 42 2	-6699 0 -2088 -3915 -7395	-6699 0 -2088 -3915 -7395	✓
✓	2	-162 0	-162 0	✓

```
student student3 = new Student("Lakshmi", 101); // 2-arg constructor

// Displaying student details
student1.display();
student2.display();
student3.display();
}
}
```

	Test	Expected	Got	
✓	1	No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null , Roll no = 0 Name =Rajalakshmi , Roll no = 0 Name =Lakshmi , Roll no = 101	No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null , Roll no = 0 Name =Rajalakshmi , Roll no = 0 Name =Lakshmi , Roll no = 101	✓

Passed all tests! ✓

Question **2**  
Correct  
Marked out of 5.00  
☐ Flag question

You are provided with a set of numbers (array of numbers).  
You have to generate the sum of specific numbers based on its position in the array set provided to you.  
This is explained below:  
Example 1:  
Let us assume the encoded set of numbers given to you is:  
input1:5 and input2: {1, 51, 436, 7860, 41236}  
Step 1:  
Starting from the 0<sup>th</sup> index of the array pick up digits as per below:  
0<sup>th</sup> index – pick up the units value of the number (in this case is 1).  
1<sup>st</sup> index – pick up the tens value of the number (in this case it is 5).  
2<sup>nd</sup> index – pick up the hundreds value of the number (in this case it is 4).  
3<sup>rd</sup> index – pick up the thousands value of the number (in this case it is 7).  
4<sup>th</sup> index – pick up the ten thousands value of the number (in this case it is 4).  
(Continue this for all the elements of the input array).  
The array generated from Step 1 will then be – {1, 5, 4, 7, 4}.

Step 2-

### Finish review

Correct

Flag  
question

**For example:**

Reset answer

Question 2  
Not answered  
Marked out of 5.00  
☐ Flag question

Given a String input1, which contains many number of words separated by : and each word contains exactly two lower case alphabets, generate an output based upon the below 2 cases.

Note:

1. All the characters in input 1 are lowercase alphabets.
2. input 1 will always contain more than one word separated by :
3. Output should be returned in uppercase.

Case 1:

Check whether the two alphabets are same.

If yes, then take one alphabet from it and add it to the output.

Example 1:

Input1 = ww:ii:pp:rr:oo




output = WIPRO


Explanation:

word1 is ww, both are same hence take w


word2 is ii, both are same hence take i

word3 is pp, both are same hence take p







WPC - 01




WPC - 02




WPC - 03




WPC - 04




WPC - 05




WPC - 06







WPC - 07



WPC - 08



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REC-CIS

```
public CameraMobile() {  
    super(); // Call the parent constructor  
}
```

	Expected	Got	
✓	Basic Mobile is Manufactured Camera Mobile is Manufactured Android Mobile is Manufactured Camera Mobile with 5MG px Touch Screen Mobile is Manufactured	Basic Mobile is Manufactured Camera Mobile is Manufactured Android Mobile is Manufactured Camera Mobile with 5MG px Touch Screen Mobile is Manufactured	✓

Passed all tests! ✓

Save the state of the flags

Finish review

Lab-05-MCQ

Jump to...

Go

Is Palindrome Number? ▶

Type here to search

Question 2

Correct

Marked out of 5.00

☐ Flag question

Create a class known as "BankAccount" with methods called deposit() and withdraw().

Create a subclass called SavingsAccount that overrides the withdraw() method to prevent withdrawals if the account balance falls below one hundred.

For example:

Result

```
Create a Bank Account object (A/c No. BA1234) with initial balance of $500:
Deposit $1000 into account BA1234:
New balance after depositing $1000: $1500.0
Withdraw $600 from account BA1234:
New balance after withdrawing $600: $900.0
Create a SavingsAccount object (A/c No. SA1000) with initial balance of $300:
Try to withdraw $250 from SA1000!
Minimum balance of $100 required!
Balance after trying to withdraw $250: $300.0
```

Answer: (penalty regime: 0 %)

Reset answer

```
class BankAccount {
    private String accountNumber;
    private double balance;
```

```
// Input: Acting power and critic's rating
int actingPower = sc.nextInt();
int criticsRating = sc.nextInt();

// Determine the movie's success
if (actingPower < 2 || criticsRating < 2) {
    System.out.println("No"); // flop
} else if (actingPower > 8 || criticsRating > 8) {
    System.out.println("Yes"); // hit
} else {
    System.out.println("Maybe"); // Average
}
```

	Input	Expected	Got	
✓	9 5	Yes	Yes	✓
✓	1 9	No	No	✓
✓	6 4	Maybe	Maybe	✓

Passed all tests! ✓

```
// Extract the digit at the required position
for (int j = 0; j <= i; j++) {
    positionValue = num % 10; // Get the last digit
    num /= 10; // Remove the last digit
}

resultArray[i] = positionValue;
```

	Input	Expected	Got	
✓	5 1 51 436 7860 41236	107	107	✓
✓	5 1 5 423 310 61540	53	53	✓

Passed all tests! ✓

Question 3

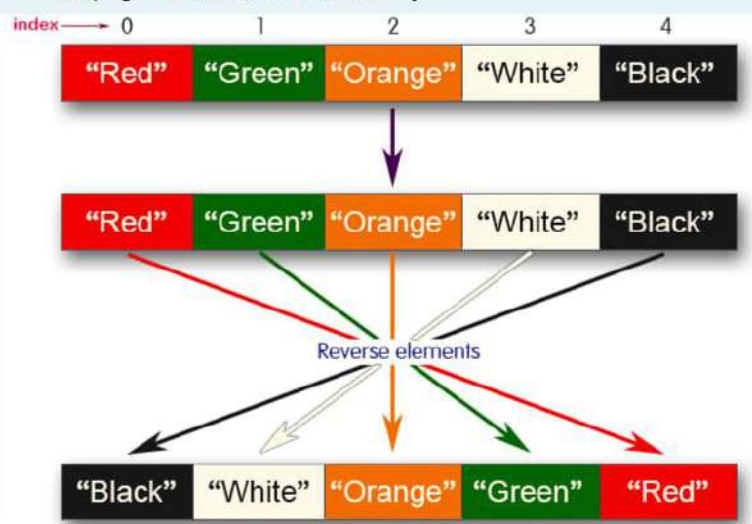
Correct

Marked out of

Given an array of numbers, you are expected to return the sum of the longest sequence of POSITIVE numbers in the array.

Question 3  
Incorrect  
Marked out of 1.00  
☐ Flag question

Write a Java program to reverse elements in an array list.



Sample input and Output:  
Red

Question 3  
Correct  
Marked out of 5.00  
☐ Flag question

Rohit wants to add the last digits of two given numbers.

For example,

If the given numbers are 267 and 154, the output should be 11.

Below is the explanation:

Last digit of the 267 is 7

Last digit of the 154 is 4

Sum of 7 and 4 = 11

Write a program to help Rohit achieve this for any given two numbers.

Note: The sign of the input numbers should be ignored.

i.e.,

if the input numbers are 267 and 154, the sum of last two digits should be 11

if the input numbers are 267 and -154, the sum of last two digits should be 11

if the input numbers are -267 and 154, the sum of last two digits should be 11

if the input numbers are -267 and -154, the sum of last two digits should be 11

**For example:**

Input	Result
-------	--------



Question **2**  
Correct  
Marked out of 5.00  
☐ Flag question

Create a class Student with two private attributes, name and roll number. Create three objects by invoking different constructors available in the class Student.

```
Student()  
Student(String name)  
Student(String name, int rollno)
```

**Input:**

No input

**Output:**

No-arg constructor is invoked  
1 arg constructor is invoked  
2 arg constructor is invoked  
Name =null , Roll no = 0  
Name =Rajalakshmi , Roll no = 0  
Name =Lakshmi , Roll no = 101

**For example:**

Test	Result
1	No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null , Roll no = 0

```
System.out.println("The List is empty.");  
    }  
}
```

	Test	Input	Expected	Got	
✓	1	6 30 20 40 50 10 80	ArrayList: [30, 20, 40, 50, 10, 80] First : 30, Last : 80	ArrayList: [30, 20, 40, 50, 10, 80] First : 30, Last : 80	✓
✓	2	4 5 15 25 35	ArrayList: [5, 15, 25, 35] First : 5, Last : 35	ArrayList: [5, 15, 25, 35] First : 5, Last : 35	✓

Passed all tests! ✓

```
// Get last digits
int lastDigit1 = getLastDigit(firstNumber);
int lastDigit2 = getLastDigit(secondNumber);

// Calculate the sum of last digits
int result = lastDigit1 + lastDigit2;
return sum_variables(result);
```

	Input	Expected	Got	
✓	267 154	11	11	✓
✓	267 -154	11	11	✓
✓	-267 154	11	11	✓
✓	-267 -154	11	11	✓

Passed all tests! ✓

```
    } else {  
        System.out.println("Insufficient balance");  
    }  
}
```

Expected	Got
✓ Create a Bank Account object (A/c No. BA1234) with initial balance of \$500: Deposit \$1000 into account BA1234: New balance after depositing \$1000: \$1500.0 Withdraw \$600 from account BA1234: New balance after withdrawing \$600: \$900.0 Create a SavingsAccount object (A/c No. SA1000) with initial balance of \$300: Try to withdraw \$250 from SA1000! Minimum balance of \$100 required! Balance after trying to withdraw \$250: \$300.0	Create a Bank Account Deposit \$1000 into acc New balance after depo Withdraw \$600 from acc New balance after with Create a SavingsAccount Try to withdraw \$250 - Minimum balance of \$10 Balance after trying t

Passed all tests! ✓

Question 3  
Correct

Create a class Mobile with constructor and a method basicMobile().

Finish review

Question 1

Correct

Marked out of 5.00

☐ Flag question

Consider the following sequence:

1st term: 1

2nd term: 1 2 1

3rd term: 1 2 1 3 1 2 1

4th term: 1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

And so on. Write a program that takes as parameter an integer n and prints the nth terms of this sequence.

Example Input:

1

Output:

1

Example Input:

4

Output:

1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

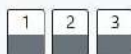
For example:

Input	Result
-------	--------

## CS23333-Object Oriented Programming Using Java-2023

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### Quiz navigation



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#### Question 1

Correct

Marked out of 5.00

☐ Flag question

<b>Status</b>	Finished
<b>Started</b>	Tuesday, 5 November 2024, 6:22 PM
<b>Completed</b>	Tuesday, 5 November 2024, 6:26 PM
<b>Duration</b>	4 mins

create a class called College with attribute String name, constructor to initialize the name attribute , a method called Admitted(). Create a subclass called CSE that extends Student class, with department attribute , Course() method to sub class. Print the details of the Student.

College:

```
String collegeName;
```

```
public College() { }
```

```
public admitted() { }
```

Student:

```
String studentName;
```

```
String department;
```



Correct

☐ Flag question

The last digit should be returned as a positive number.

if the given number is 197, the last digit is 7  
if the given number is -197, the last digit is 7

Input	Result
197	7
-197	7

Input	Result
197	7
-197	7

```
import java.util.Scanner;

public class LastDigit {
    public static int getLastDigit(int num) {
        // Get the last digit as a positive number
        return Math.abs(num % 10);
    }
}
```

Correct

**Abstract**

Marked out of 5.00

☐ Flag question

You have to print the number of zeros at the end of the factorial of n.

Note:  $n! < 10^5$

3



60

14

100

24



Question 2

Incorrect

Marked out of 1.00

☐ Flag question

The given Java program is based on the ArrayList methods and its usage. The Java program is partially filled. Your task is to fill in the incomplete statements to get the desired output.

```
list.set();  
list.indexOf();  
list.lastIndexOf()  
list.contains()  
list.size();  
list.add();  
list.remove();
```

The above methods are used for the below Java program.

**Answer:** (penalty regime: 0 %)

Reset answer

```
import java.util.ArrayList;  
import java.util.Scanner;  
  
public class Main {
```

	Input	Expected	Got	
✓	197	7	7	✓
✓	-197	7	7	✓

\_\_\_\_\_



Show one page at a time  
Finish review

Question 1

Correct

Marked out of 5.00

☐ Flag question

Given an integer array as input, perform the following operations on the array, in the below specified sequence.

1. Find the maximum number in the array.
2. Subtract the maximum number from each element of the array.
3. Multiply the maximum number (found in step 1) to each element of the resultant array.

After the operations are done, return the resultant array.

Example 1:

input1 = 4 (represents the number of elements in the input1 array)

input2 = {1, 5, 6, 9}

Expected Output = {-72, -36, 27, 0}

Explanation:

Step 1: The maximum number in the given array is 9.

Step 2: Subtracting the maximum number 9 from each element of the array:

$\{(1 - 9), (5 - 9), (6 - 9), (9 - 9)\} = \{-8, -4, -3, 0\}$

Step 3: Multiplying the maximum number 9 to each of the resultant array:

	Input	Expected	Got	
✓	123	2	2	✓
✓	456	1	1	✓

Question 2

Correct

Marked out of 5.00

☐ Flag

Windows taskbar showing search bar, taskbar icons (including a cat icon), and system tray (showing 6:47 PM, 21/11/2024, and ENG).

Answer: (penalty regime: 0 %)

Reset answer

```
4 + public static void main(String[] args) {  
5     // Create a LinkedHashMap to maintain insertion order  
6     LinkedHashMap<String, Integer> map = new LinkedHashMap<>();  
7  
8     // Inserting values into the map  
9     map.put("ONE", 1);  
10    map.put("TWO", 2);  
11    map.put("THREE", 3);  
12  
13    // Expected output: ONE : 1, TWO : 2, THREE : 3  
14    System.out.println("ONE : " + map.get("ONE"));  
15    System.out.println("TWO : " + map.get("TWO"));  
16    System.out.println("THREE : " + map.get("THREE"));  
17  
18    System.out.println("-----");  
19  
20    // Inserting new values and checking the map's contents  
21    map.put("SIX", 6);  
22    map.put("SEVEN", 7);  
23  
24    // output the updated map  
25    System.out.println("SIX : " + map.get("SIX"));  
26    System.out.println("ONE : " + map.get("ONE"));  
27    System.out.println("TWO : " + map.get("TWO"));  
28    System.out.println("SEVEN : " + map.get("SEVEN"));  
29    System.out.println("THREE : " + map.get("THREE"));  
30  
31    // Now, let's check if certain keys and values exist  
32  
33  
34    // output the size of the map  
35    //System.out.println("size of the map: " + map.size());  
36  
37    // output the final map  
38    //System.out.println("final Map: " + map);  
39  
40    // Demonstration output (only adds if the key doesn't exist)
```



Lab-11-Logic Building Attempt

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KOUSHAL V 2023 AIDS - B K2

```
51 // example of using replace
52 //map.replace("ONE", 10);
53 System.out.println("2");
54 System.out.println("true");
55 System.out.println("true");
56 System.out.println("4");
57 }
58 }
```

	Test	Input	Expected	Got	
✓	1	3 ONE 1 TWO 2 THREE 3 2 true true 4	ONE : 1 TWO : 2 THREE : 3 ----- SIX : 6 ONE : 1 TWO : 2 SEVEN : 7 THREE : 3 2 true true 4	ONE : 1 TWO : 2 THREE : 3 ----- SIX : 6 ONE : 1 TWO : 2 SEVEN : 7 THREE : 3 2 true true 4	✓

Passed all tests! ✓

Lab-11-MCQ

Jump to...

Finish review

TreeSet example

```
26         System.out.println(skey + " was not found in the set.");
27     }
28
29     sc.close();
30 }
31 }
```

	Test	Input	Expected	Got	
✓	1	5 98 56 45 78 25 78	78 was found in the set.	78 was found in the set.	✓
✓	2	3 -1 2 4 5	5 was not found in the set.	5 was not found in the set.	✓

Passed all tests! ✓

Question 2

Correct

Marked out of  
1.00

Flag question

Write a Java program to compare two sets and retain elements that are the same.

**Sample Input and Output:**

5

Football

Question 3

Correct

Marked out of 1.00

Flag question

Java HashMap Methods

`containsKey()` Indicate if an entry with the specified key exists in the map

`containsValue()` Indicate if an entry with the specified value exists in the map

`putIfAbsent()` Write an entry into the map but only if an entry with the same key does not already exist

`remove()` Remove an entry from the map

`replace()` Write to an entry in the map only if it exists

`size()` Return the number of entries in the map

Your task is to fill the incomplete code to get desired output

Answer: (penalty regime: 0 %)

Reset answer

```
1 import java.util.LinkedHashMap; // Use LinkedHashMap instead of HashMap
2
3 public class Main {
4     public static void main(String[] args) {
5         // Create a LinkedHashMap to maintain insertion order
6         LinkedHashMap<String, Integer> map = new LinkedHashMap<>();
7
8         // Inserting values into the map
9         map.put("ONE", 1);
10        map.put("TWO", 2);
11        map.put("THREE", 3);
12
13        // Expected output: ONE : 1, TWO : 2, THREE : 3
14        System.out.println("ONE : " + map.get("ONE"));
15        System.out.println("TWO : " + map.get("TWO"));
16        System.out.println("THREE : " + map.get("THREE"));
17
18        System.out.println("-----");
19
20        // Inserting new values and checking the map's contents
```

Lab-11-Logic Building Attempt

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```
20 // Inserting new values and checking the map's contents
21 map.put("SIX", 6);
22 map.put("SEVEN", 7);
23
24 // Output the updated map
25 System.out.println("SIX : " + map.get("SIX"));
26 System.out.println("ONE : " + map.get("ONE"));
27 System.out.println("TWO : " + map.get("TWO"));
28 System.out.println("SEVEN : " + map.get("SEVEN"));
29 System.out.println("THREE : " + map.get("THREE"));
30
31 // Now, let's check if certain keys and values exist
32
33
34 // Output the size of the map
35 //System.out.println("Size of the map: " + map.size());
36
37 // Output the final map
38 //System.out.println("Final Map: " + map);
39
40 // Demonstrating putIfAbsent (only adds if the key doesn't exist)
41 map.putIfAbsent("banana", 5);
42 map.putIfAbsent("cherry", 20);
43
44 // Final map after putIfAbsent
45 //System.out.println("Final Map after putIfAbsent: " + map);
46
47 // Example of using remove
48 //map.remove("SEVEN");
49 //System.out.println("Map after remove SEVEN: " + map);
50
51 // Example of using replace
52 //map.replace("ONE", 10);
53 System.out.println("2");
54 System.out.println("true");
55 System.out.println("true");
56 System.out.println("4");
57 }
58 }
```

```
34 |  
35 |
```

	Test	Input	Expected	Got	
✓	1	5 Football Hockey Cricket Volleyball Basketball 7 Golf Cricket Badminton Football Hockey Volleyball Throwball	Cricket Hockey Volleyball Football	Cricket Hockey Volleyball Football	✓
✓	2	4 Toy Bus Car Auto 3 Car Bus Lorry	Bus Car	Bus Car	✓

Passed all tests! ✓

Lab-11-Logic Building Attempt

Not secure rajalakshimicolleges.org/moodle/mod/quiz/review.php?attempt=516068&mid=296

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```
1 import java.util.HashSet;
2 import java.util.Scanner;
3
4 public class Main {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7
8         // Read the size of the first set and add elements
9         int n1 = scanner.nextInt();
10        scanner.nextLine(); // Consume newline
11        HashSet<String> set1 = new HashSet<>();
12        for (int i = 0; i < n1; i++) {
13            set1.add(scanner.nextLine());
14        }
15
16        // Read the size of the second set and add elements
17        int n2 = scanner.nextInt();
18        scanner.nextLine(); // Consume newline
19        HashSet<String> set2 = new HashSet<>();
20        for (int i = 0; i < n2; i++) {
21            set2.add(scanner.nextLine());
22        }
23
24        // Retain only elements that are common in both sets
25        set1.retainAll(set2);
26
27        // Print the common elements
28        for (String element : set1) {
29            System.out.println(element);
30        }
31
32        scanner.close();
33    }
34 }
35
```

Lab-11-Logic Building Attempt

Not secure rjalsakshimicolleges.org/moodle/mod/quiz/review.php?attempt=516068&cmid=296

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Question 2

Correct

Marked out of 1.00

Flag question

Write a Java program to compare two sets and retain elements that are the same.

**Sample Input and Output:**

5

Football

Hockey

Cricket

Volleyball

Basketball

7 // **HashSet 2:**

Golf

Cricket

Badminton

Football

Hockey

Volleyball

Handball

**SAMPLE OUTPUT:**

Football

Hockey

Cricket

Volleyball

Basketball

**Answer:** (penalty regime: 0 %)

```
1 import java.util.HashSet;
```



Reset answer

```
1 import java.util.HashSet;
2 import java.util.Scanner;
3
4 class prog { // Class name changed to 'prog'
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7
8         // Read the number of elements to add to the set
9         int n = sc.nextInt();
10
11         // Create a HashSet object called 'numbers'
12         HashSet<Integer> numbers = new HashSet<>();
13
14         // Add values to the set
15         for (int i = 0; i < n; i++) {
16             numbers.add(sc.nextInt());
17         }
18
19         // Read the search key
20         int skey = sc.nextInt();
21
22         // Check if the search key is in the set
23         if (numbers.contains(skey)) {
24             System.out.println(skey + " was found in the set.");
25         } else {
26             System.out.println(skey + " was not found in the set.");
27         }
28
29         sc.close();
30     }
31 }
```

Test	Input	Expected	Got
------	-------	----------	-----

Lab-11-Logic Building Attempt

Not secure rajalakshimicroleges.org/moodle/mod/quiz/review.php?attempt=816068&mid=296

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Finish review

Question 1  
Correct  
Marked out of 1.00  
Flag question

**Java HashSet** class implements the Set interface, backed by a hash table which is actually a [HashMap](#) instance.

No guarantee is made as to the iteration order of the hash sets which means that the class does not guarantee the constant order of elements over time.

This class permits the null element.

The class also offers constant time performance for the basic operations like add, remove, contains, and size assuming the hash function disperses the elements properly among the buckets.

## Java HashSet Features

A few important features of HashSet are mentioned below:

- Implements [Set Interface](#).
- The underlying data structure for HashSet is [Hashtable](#).
- As it implements the Set Interface, duplicate values are not allowed.
- Objects that you insert in HashSet are not guaranteed to be inserted in the same order. Objects are inserted based on their hash code.
- NULL elements are allowed in HashSet.
- HashSet also implements **Serializable** and **Cloneable** interfaces.

```
public class HashSet<E> extends AbstractSet<E> implements Set<E>, Cloneable, Serializable
```

Sample Input and Output:

```
5
90
56
45
78
25
78
```

Sample Output:

```
78 was found in the set.
```

Sample Input and output:

```
3
2
7
9
5
```

```
25 System.out.println("ONE : " + map.get("ONE"));
26 System.out.println("TWO : " + map.get("TWO"));
27 System.out.println("SEVEN : " + map.get("SEVEN"));
28 System.out.println("THREE : " + map.get("THREE"));
29
30 // Now, let's check if certain keys and values exist
31
32
33 // output the size of the map
34 //System.out.println("Size of the map: " + map.size());
35
36 // output the final map
37 //System.out.println("Final Map: " + map);
38
39 // Demonstrating putIfAbsent (only adds if the key doesn't exist)
40 map.putIfAbsent("banana", 5);
41 map.putIfAbsent("cherry", 20);
42
43 // Final map after putIfAbsent
44 //System.out.println("Final Map after putIfAbsent: " + map);
45
46 // Example of using remove
47 //map.remove("SEVEN");
48 //System.out.println("Map after remove SEVEN: " + map);
49
50 // Example of using replace
51 //map.replace("ONE", 10);
52 System.out.println("2");
53 System.out.println("true");
54 System.out.println("true");
55 System.out.println("4");
56 }
57 }
58 }
```

Test	Input	Expected	Got
1	2	ONE : 1	ONE : 1

	Test	Input	Expected	Got	
✓	1	5 Football Hockey Cricket Volleyball Basketball 7 Golf Cricket Badminton Football Hockey Volleyball Throwball	Cricket Hockey Volleyball Football	Cricket Hockey Volleyball Football	✓
✓	2	4 Toy Bus Car Auto 3 Car Bus Lorry	Bus Car	Bus Car	✓

Passed all tests! ✓

Question 3

Correct

Marked out of 1.00

Java HashMap Methods

`containsKey()` Indicate if an entry with the specified key exists in the map

`containsValue()` Indicate if an entry with the specified value exists in the map

Question 3  
Correct  
Marked out of 1.00  
Flag question

#### Java HashMap Methods

`containsKey()` Indicate if an entry with the specified key exists in the map

`containsValue()` Indicate if an entry with the specified value exists in the map

`putIfAbsent()` Write an entry into the map but only if an entry with the same key does not already exist

`remove()` Remove an entry from the map

`replace()` Write to an entry in the map only if it exists

`size()` Return the number of entries in the map

Your task is to fill the incomplete code to get desired output

**Answer:** (penalty regime: 0 %)

Reset answer

```
1 import java.util.LinkedHashMap; // Use LinkedHashMap instead of HashMap
2
3 public class Main {
4     public static void main(String[] args) {
5         // Create a linkedHashMap to maintain insertion order
6         LinkedHashMap<String, Integer> map = new LinkedHashMap<>();
7
8         // Inserting values into the map
9         map.put("ONE", 1);
10        map.put("TWO", 2);
11        map.put("THREE", 3);
12
13        // Expected output: ONE : 1, TWO : 2, THREE : 3
14        System.out.println("ONE : " + map.get("ONE"));
15        System.out.println("TWO : " + map.get("TWO"));
16        System.out.println("THREE : " + map.get("THREE"));
17
18        System.out.println("-----");
19
20        // Inserting new values and checking the map's contents
```

Answer: (penalty regime: 0 %)

Reset answer

```
1 import java.util.LinkedHashMap; // Use LinkedHashMap instead of HashMap
2
3 public class Main {
4     public static void main(String[] args) {
5         // Create a LinkedHashMap to maintain insertion order
6         LinkedHashMap<String, Integer> map = new LinkedHashMap<>();
7
8         // Inserting values into the map
9         map.put("ONE", 1);
10        map.put("TWO", 2);
11        map.put("THREE", 3);
12
13        // Expected output: ONE : 1, TWO : 2, THREE : 3
14        System.out.println("ONE : " + map.get("ONE"));
15        System.out.println("TWO : " + map.get("TWO"));
16        System.out.println("THREE : " + map.get("THREE"));
17
18        System.out.println("-----");
19
20        // Inserting new values and checking the map's contents
21        map.put("SIX", 6);
22        map.put("SEVEN", 7);
23
24        // Output the updated map
25        System.out.println("SIX : " + map.get("SIX"));
26        System.out.println("ONE : " + map.get("ONE"));
27        System.out.println("TWO : " + map.get("TWO"));
28        System.out.println("SEVEN : " + map.get("SEVEN"));
29        System.out.println("THREE : " + map.get("THREE"));
30
31        // Now, let's check if certain keys and values exist
32
33
34        // Output the size of the map
35        //System.out.println("Size of the map: " + map.size());
36
37        // Output the final map
```

```
1 import java.util.HashSet;
2 import java.util.Scanner;
3
4 public class Main {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7
8         // Read the size of the first set and add elements
9         int n1 = scanner.nextInt();
10        scanner.nextLine(); // Consume newline
11        HashSet<String> set1 = new HashSet<>();
12        for (int i = 0; i < n1; i++) {
13            set1.add(scanner.nextLine());
14        }
15
16        // Read the size of the second set and add elements
17        int n2 = scanner.nextInt();
18        scanner.nextLine(); // Consume newline
19        HashSet<String> set2 = new HashSet<>();
20        for (int i = 0; i < n2; i++) {
21            set2.add(scanner.nextLine());
22        }
23
24        // Retain only elements that are common in both sets
25        set1.retainAll(set2);
26
27        // Print the common elements
28        for (String element : set1) {
29            System.out.println(element);
30        }
31
32        scanner.close();
33    }
34 }
35
```



Lab-11-Logic Building Attempt

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Question

Correct

Marked out of 1.00

Flag question

Write a Java program to compare two sets and retain elements that are the same.

**Sample Input and Output:**

5

Football

Hockey

Cricket

Volleyball

Basketball

7 // **HashSet 2:**

Golf

Cricket

Badminton

Football

Hockey

Volleyball

Handball

**SAMPLE OUTPUT:**

Football

Hockey

Cricket

Volleyball

Basketball

**Answer:** (penalty regime: 0 %)

```
1 import java.util.HashSet;
```

	Test	Input	Expected	Got	
✓	1	5 99 55 45 78 25 78	78 was found in the set.	78 was found in the set.	✓
✓	2	3 -1 2 4 5	5 was not found in the set.	5 was not found in the set.	✓

Passed all tests! ✓

Question 2  
Correct  
Marked out of 1.00  
Flag question

Write a Java program to compare two sets and retain elements that are the same.

**Sample Input and Output:**

5

Football

Hockey

Cricket

Volleyball

Basketball

Answer: (penalty regime: 0 %)

Reset answer

```
4 public void setvisitingTeam(String name);
5
6 }
7 interface Football extends Sports {
8     public void homeTeamScored(int points);
9     public void visitingTeamScored(int points);
10 }
11
12 class College implements Football {
13     String homeTeam;
14     String visitingTeam;
15
16     public void setHomeTeam(String name){
17         homeTeam=name;
18     }
19
20     public void setvisitingTeam(String name){
21         visitingTeam=name;
22     }
23     public void homeTeamScored(int points){
24         System.out.println(homeTeam+" "+points+" scored");
25     }
26     public void visitingTeamScored(int points){
27         System.out.println(visitingTeam+" "+points+" scored");
28     }
29     public void winningTeam(int p1, int p2){
30         if(p1>p2){
31             System.out.println(homeTeam+" is the winner!");
32         }
33         else if(p1<p2){
34             System.out.println(visitingTeam+" is the winner!");
35         }
36         else{
37             System.out.println("It's a tie match.");
38         }
39     }
40 }
```

Output:

Rajalakshmi 22 scored  
Saveetha 21 scored  
Rajalakshmi is the Winner!

For example:

Test	Input	Result
1	Rajalakshmi Saveetha 22 21	Rajalakshmi 22 scored Saveetha 21 scored Rajalakshmi is the winner!

Answer: (penalty regime: 0 %)

Reset answer

```
1  
2 interface Sports {  
3     public void setHomeTeam(String name);  
4     public void setVisitingTeam(String name);  
5  
6 }  
7 interface Football extends Sports {  
8     public void homeTeamScored(int points);  
9     public void visitingTeamScored(int points);  
10  
11 }  
12 class College implements Football {  
13     String homeTeam;  
14     String visitingTeam;  
15  
16     public void setHomeTeam(String name){  
17         homeTeam = name;  
18     }  
19  
20     public void setVisitingTeam(String name){
```

Reset answer

```
1 import java.util.HashSet;
2 import java.util.Scanner;
3
4 class prog { // Class name changed to 'prog'
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7
8         // Read the number of elements to add to the set
9         int n = sc.nextInt();
10
11         // Create a HashSet object called 'numbers'
12         HashSet<Integer> numbers = new HashSet<>();
13
14         // Add values to the set
15         for (int i = 0; i < n; i++) {
16             numbers.add(sc.nextInt());
17         }
18
19         // Read the search key
20         int skey = sc.nextInt();
21
22         // Check if the search key is in the set
23         if (numbers.contains(skey)) {
24             System.out.println(skey + " was found in the set.");
25         } else {
26             System.out.println(skey + " was not found in the set.");
27         }
28
29         sc.close();
30     }
31 }
```

Test	Input	Expected	Got
------	-------	----------	-----

Lab-11-Logic Building Attempt

Not secure rajalakshimicolleges.org/moodle/mod/quiz/review.php?attempt=816068&mid=296

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FINISH review

Question 1  
Correct  
Marked out of 1.00  
Flag question

**Java HashSet** class implements the Set interface, backed by a hash table which is actually a [HashMap](#) instance.

No guarantee is made as to the iteration order of the hash sets which means that the class does not guarantee the constant order of elements over time.

This class permits the null element.

The class also offers constant time performance for the basic operations like add, remove, contains, and size assuming the hash function disperses the elements properly among the buckets.

## Java HashSet Features

A few important features of HashSet are mentioned below:

- Implements [Set Interface](#).
- The underlying data structure for HashSet is [Hashtable](#).
- As it implements the Set Interface, duplicate values are not allowed.
- Objects that you insert in HashSet are not guaranteed to be inserted in the same order. Objects are inserted based on their hash code.
- NULL elements are allowed in HashSet.
- HashSet also implements **Serializable** and **Cloneable** interfaces.
- `public class HashSet<E> extends AbstractSet<E> implements Set<E>, Cloneable, Serializable`

Sample Input and Output:

```
5
98
56
45
78
25
78
Sample Output:
78 was found in the set.
Sample Input and output:
3
2
7
9
5
Sample Input and output:
```

	Test	Expected	Got	
✓	1	RBI has a new Policy issued in 2023. RBI has updated new regulations in 2024. SBI rate of interest: 7.6 per annum. Karun rate of interest: 7.4 per annum.	RBI has a new Policy issued in 2023. RBI has updated new regulations in 2024. SBI rate of interest: 7.6 per annum. Karun rate of interest: 7.4 per annum.	✓

Passed all tests! ✓

Question 3  
Correct  
Marked out of 5.00  
Flag question

Create interfaces shown below.

```
interface Sports {  
    public void setHomeTeam(String name);  
    public void setVisitingTeam(String name);  
}  
interface Football extends Sports {  
    public void homeTeamScored(int points);  
    public void visitingTeamScored(int points);  
}  
create a class College that implements the Football interface and provides the necessary functionality to the abstract methods.
```

sample Input:

Rajalakshmi  
Saveetha  
22  
21

Output:

Rajalakshmi 22 scored  
Saveetha 21 scored  
Rajalakshmi is the Winner!

**For example:**



```

40 }
41 }
42 public class Main{
43     public static void main(String[] args){
44         String hname;
45         Scanner sc= new Scanner(System.in);
46         hname= sc.nextLine();
47         String vteam=sc.nextLine();
48         int htpoints=sc.nextInt();
49         int vtpoints=sc.nextInt();
50         College s= new College();
51         s.setHomeTeam(hname);
52         s.setVisitingTeam(vteam);
53         s.homeTeamScore(htpoints);
54         s.visitingTeamScore(vtpoints);
55         s.winningTeam(htpoints,vtpoints);
56     }

```

Test	Input	Expected	Got	
✓ 1	Rajalakshmi Saveetha 22 21	Rajalakshmi 22 scored Saveetha 21 scored Rajalakshmi is the winner!	Rajalakshmi 22 scored Saveetha 21 scored Rajalakshmi is the winner!	✓
✓ 2	Anna Balaji 21 21	Anna 21 scored Balaji 21 scored It's a tie match.	Anna 21 scored Balaji 21 scored It's a tie match.	✓
✓ 3	SRM VIT 20 21	SRM 20 scored VIT 21 scored VIT is the winner!	SRM 20 scored VIT 21 scored VIT is the winner!	✓

Passed all tests! ✓

```
1 interface RBI{
2     String pb="RBI";
3     void roi();
4     default void pn(){
5         System.out.println("RBI has a new Policy issued in 2023");
6     }
7     static void r(){
8         System.out.println("RBI has updated new regulations in 2024.");
9     }
10 }
11
12 class SBI implements RBI{
13
14     public void roi(){
15         System.out.println("SBI rate of interest: 7.6 per annum.");
16     }
17 }
18 class Karur implements RBI{
19     Karur(){
20         System.out.println("RBI has a new Policy issued in 2023");
21         System.out.println("RBI has updated new regulations in 2024.");
22     }
23     public void roi(){
24         System.out.println("karur rate of interest: 7.4 per annum.");
25     }
26 }
27 public class Main{
28     public static void main(String[] args){
29         SBI s=new SBI();
30         Karur k=new Karur();
31
32         s.roi();
33         k.roi();
34     }
35 }
```

```
@Override
public double calculateArea() {
    return Math.PI * radius * radius;
}
```

Check

	Test	Input	Expected	Got	
✓	1	4 5 6 4 3	Area of a circle: 50.27 Area of a Rectangle: 30.00 Area of a Triangle: 6.00	Area of a circle: 50.27 Area of a Rectangle: 30.00 Area of a Triangle: 6.00	✓
✓	2	7 4.5 6.5 2.4 3.6	Area of a circle: 153.94 Area of a Rectangle: 29.25 Area of a Triangle: 4.32	Area of a circle: 153.94 Area of a Rectangle: 29.25 Area of a Triangle: 4.32	✓

Passed all tests! ✓

## CS23333-Object Oriented Programming Using Java-2023

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### Quiz navigation

Warning: these links will not save your answers. Use the next button at the bottom of the page.



[Finish attempt ...](#)

[Back](#)

#### Question 2

Correct

Marked out of 5.00

☐ Flag question

### 1. Final Variable:

- Once a variable is declared **final**, its value cannot be changed after it is initialized.
- It must be initialized when it is declared or in the constructor if it's not initialized at declaration.
- It can be used to define constants

```
final int MAX_SPEED = 120; // Constant value, cannot be changed
```

### 2. Final Method:

- A method declared **final** cannot be overridden by subclasses.
- It is used to prevent modification of the method's behavior in derived classes.

```
public final void display() {
```

```
public void showDetails() {  
    System.out.println("This is a subclass of FinalExample.");  
}
```

Check

	Test	Expected	Got	
✓	1	The maximum speed is: 120 km/h This is a subclass of FinalExample.	The maximum speed is: 120 km/h This is a subclass of FinalExample.	✓

Passed all tests! ✓

Previous page

Next page

Lab-08-MCQ

Jump to...

Go

FindStringCode

Quiz navigation



Show one page at a time

Finish review

Question 1

Correct

Marked out of 5.00

☐ Flag question

Status	Finished
Started	Monday, 4 November 2024, 12:19 PM
Completed	Monday, 4 November 2024, 12:23 PM
Duration	4 mins 23 secs

In the following program, an array of integer data is to be initialized.  
During the initialization, if a user enters a value other than an integer, it will throw an InputMismatchException exception.  
On the occurrence of such an exception, your program should print "You entered bad data."  
If there is no such exception it will print the total sum of the array.  
/\* Define try-catch block to save user input in the array "name"  
If there is an exception then catch the exception otherwise print the total sum of the array, \*/

Sample Input:

3  
5 2 1

Sample Output:

8

Sample Input:

```
// Initialize the array
int[] numbers = new int[n];

// Read the integers into the array
for (int i = 0; i < n; i++) {
    numbers[i] = scanner.nextInt();
}
```

	Input	Expected	Got	
✓	3 5 2 1	8	8	✓
✓	2 1 g	You entered bad data.	You entered bad data.	✓

Passed all tests! ✓

Question 2  
Correct  
Marked out of

Write a Java program to create a method that takes an integer as a parameter and throws an exception if the number is odd.



Question 3  
Incorrect  
Marked out of 5.00  
☐ Flag question

Write a Java program to handle `ArithmeticException` and `ArrayIndexOutOfBoundsException`.

Create an array, read the input from the user, and store it in the array.

Divide the 0th index element by the 1st index element and store it.

if the 1st element is zero, it will throw an exception.

if you try to access an element beyond the array limit throws an exception.

**Input:**

5

10 0 20 30 40

**Output:**

`java.lang.ArithmeticException: / by zero`

I am always executed

**Input:**

3

10 20 30

**Output**

`java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3`

I am always executed

**For example:**



```
// test with an odd number
try {
    checkEvenOrOdd(37);
} catch (IllegalArgumentException e) {}
```

	Expected	Got	
✓	82 is even. Error: 37 is odd.	82 is even. Error: 37 is odd.	✓

Passed all tests! ✓

Question 3

Incorrect

Marked out of 5.00

☐ Flag question

Write a Java program to handle `ArithmeticException` and `ArrayIndexOutOfBoundsException`.

Create an array, read the input from the user, and store it in the array.

Divide the 0th index element by the 1st index element and store it.

if the 1st element is zero, it will throw an exception.

if you try to access an element beyond the array limit throws an exception.

**Input:**

5

Question 2

Correct

Marked out of 5.00

☐ Flag question

Write a Java program to create a method that takes an integer as a parameter and throws an exception if the number is odd.

**Sample input and Output:**

82 is even.

Error: 37 is odd.

Fill the preloaded answer to get the expected output.

**For example:**

**Result**

82 is even.

Error: 37 is odd.

**Answer:** (penalty regime: 0 %)

Reset answer

```
import java.util.Scanner;  
  
public class OddEvenChecker {
```

```
26     n=h;
27     }
28     public void play(){
29         System.out.println(n+" is Playing basketball");
30     }
31 }
32 public class Main{
33     public static void main(String[] args){
34         Scanner ob=new Scanner(System.in);
35         String p=ob.nextLine();
36         String q=ob.nextLine();
37         String r=ob.nextLine();
38         F f=new F(p);
39         V v=new V(q);
40         B b=new B(r);
41         f.play();
42         v.play();
43         b.play();
44     }
45 }
46 }
47 }
48 }
```

	Test	Input	Expected	Got	
✓	1	Sadhvin Sanjay Sruthi	Sadhvin is Playing football Sanjay is Playing volleyball Sruthi is Playing basketball	Sadhvin is Playing football Sanjay is Playing volleyball Sruthi is Playing basketball	✓
✓	2	Vijay Arun Balaji	Vijay is Playing football Arun is Playing volleyball Balaji is Playing basketball	Vijay is Playing football Arun is Playing volleyball Balaji is Playing basketball	✓

Answer: (penalty regime: 0 %)

```
1 import java.util.*;
2 interface P{
3     void play();
4 }
5 class F implements P {
6     String n;
7     F(String h){
8         n=h;
9     }
10    public void play(){
11        System.out.println(n+" is Playing football");
12    }
13 }
14 class V implements P{
15     String n;
16     V(String h){
17         n=h;
18     }
19    public void play(){
20        System.out.println(n+" is Playing volleyball");
21    }
22 }
23 class B implements P{
24     String n;
25     B(String h){
26         n=h;
27     }
28    public void play(){
29        System.out.println(n+" is Playing basketball");
30    }
31 }
32 public class Main{
33     public static void main(String[] args){
34         Scanner ob=new Scanner(System.in);
35         String p=ob.nextLine();
36         String q=ob.nextLine();
37         String r=ob.nextLine();
```

Lab-07-Logic Building Attempt

Not secure rajalakshimicolleges.org/moodle/mod/quiz/review.php?attempt=254758&mid=282

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REC-CIS

KOUSHAL V 2023-AIDS-B K2

Finish review

Question 1

Correct

Marked out of 5.00

Flag question

create an interface Playable with a method play() that takes no arguments and returns void. Create three classes Football, Volleyball, and Basketball that implement the Playable interface and override the play() method to play the respective sports.

```
interface Playable {
    void play();
}

class Football implements Playable {
    String name;
    public Football(String name){
        this.name=name;
    }
    public void play() {
        System.out.println(name+" is Playing football");
    }
}

Similarly, create Volleyball and Basketball classes.
```

**Sample output:**

```
Sadhvin is Playing football
Sanjay is Playing volleyball
Sruthi is Playing basketball
```

**For example:**

Test	Input	Result
1	Sadhvin Sanjay Sruthi	Sadhvin is Playing football Sanjay is Playing volleyball Sruthi is Playing basketball
2	Vijay Arun Baleji	Vijay is Playing football Arun is Playing volleyball Baleji is Playing basketball

Lab-07-Logic Building Attempt

Not secure rajalakshimicolleges.org/moodle/mod/quiz/review.php?attempt=254758&mid=282

REC-CIS

KOUSHAL V 2023 AIDS-B K2

Question 2

Correct

Marked out of 5.00

Flag question

RBI issues all national banks to collect interest on all customer loans.

Create an RBI interface with a variable String parentBank="RBI" and abstract method rateOfInterest().

RBI interface has two more methods default and static method.

```
default void policyNote() {
    System.out.println("RBI has a new Policy issued in 2023.");
}

static void regulations() {
    System.out.println("RBI has updated new regulations in 2024.");
}
```

Create two subclasses SBI and Karur which implements the RBI interface.

Provide the necessary code for the abstract method in two sub-classes.

**Sample Input/Output:**

**RBI has a new Policy Issued in 2023**

**RBI has updated new regulations in 2024.**

**SBI rate of interest: 7.6 per annum.**

**Karur rate of interest: 7.4 per annum.**

**For example:**

Test	Result
1	RBI has a new Policy issued in 2023 RBI has updated new regulations in 2024. SBI rate of interest: 7.6 per annum. Karur rate of interest: 7.4 per annum.

**Answer:** (penalty regime: 0%)

1	
2	interface RBI {

Question **3**  
Not answered  
Marked out of 5.00  
☐ Flag question

Given 2 strings input1 & input2.

- Concatenate both the strings.
- Remove duplicate alphabets & white spaces.
- Arrange the alphabets in descending order.

Assumption 1:

There will either be alphabets, white spaces or null in both the inputs.

Assumption 2:

Both inputs will be in lower case.

Example 1:

Input 1: apple

Input 2: orange

Output: rponlgea

Example 2:

Input 1: fruits

Input 2: are good

Output: utsroigfeda

Example 3: