

Java Questions Document

Question 1: Variables and data types

```
public class MyClass {  
    public static void main(String args[]) {  
  
        int x=30;  
        float y=70.0;  
        float z=x+y;  
  
        System.out.println(z);  
    }  
}
```

ANSWERS TO THE QUESTION 1:

CUP A) 70

CUP B) 100

CUP C) ERROR

CUP D) 100.0

REASONING:

DIFFERENT VARIABLE TYPES CAUSE A ERROR AS Z IS A FLOAT VALUE WHILE X AND Y ARE A INTEGER VALUE.

The screenshot shows a code editor with the following Java code:

```
1 public class MyClass {  
2     public static void main(String args[]) {  
3         int x=30;  
4         float y=70.0;  
5         float z=x+y;  
6  
7         System.out.println(z);  
8     }  
9 }  
10
```

Below the code editor is a control bar with a dropdown menu set to "JDK 17.0.1", an "Interactive" checkbox, and a "Stdin Inputs" text area. There is also a "CommandLine Arguments" text area. An "Execute" button is visible.

The "Result" section at the bottom shows the following output:

```
CPU Time: sec(s), Memory: kilobyte(s) compiled and executed in 0.285 sec(s)  
  
/MyClass.java:1: error: class, interface, enum, or record expected  
Variables and data types  
^  
1 error
```

Question 2: Conditional Question:

```
public class TaxiPrice {  
    public static void main(String[] args) {  
  
        double baseCost = 30.0;  
        int numPassengers;  
  
        Scanner scnr = new Scanner(System.in);  
  
        numPassengers = scnr.nextInt();  
  
        if (numPassengers <= 2) {  
            System.out.println(" Total cost: " + baseCost);  
        }  
        else if( numPassengers >= 3 && numPassengers <10){  
  
            System.out.println("Total cost: " + (baseCost * 1.50));  
        }  
        else{  
            System.out.println("Total cost: " + (baseCost * 2.0));  
        }  
    }  
}
```

Q: If numPassengers = 10 what is the output

ANSWERS TO THE QUESTION 2:

ATTACK A) 60.0

ATTACK B) 12.0

ATTACK C) 45.0

ATTACK D) 37.0

REASONING:

10 TRIGGERS THE ELSE STATEMENT THAT CAUSES $30 * 2.0 = 60$

```
1 import java.util.Scanner;
2
3 public class MovieTicketPrices {
4     public static void main(String[] args) {
5         Scanner scnr = new Scanner(System.in);
6
7         double baseCost = 30.0;
8         int numPassengers;
9
10
11 numPassengers = scnr.nextInt();
12
13 if (numPassengers <= 2) {
14     System.out.println("Total cost: " + baseCost);
15 }
16 else if (numPassengers >= 3 && numPassengers <10){
17
18     System.out.println("Total cost: " + (baseCost * 1.50));
19 }
20 else{
21     System.out.println("Total cost: " + (baseCost * 2.0));
22 }
23 }
24 }
25 }
26
27
```

Execute Mode, Version, Inputs & Arguments

JDK 17.0.1

☐ Interactive

Stdin Inputs

CommandLine Arguments

10

 Execute



Result

CPU Time: 0.19 sec(s), Memory: 38976 kilobyte(s)

compiled and executed in 0.704 sec(s)

Total cost: 60.0

Question 3: Loop Question:

```
import java.util.Scanner;
public class Salary {
    public static void main(String[] args) {
        Scanner scnr = new Scanner(System.in);
        double startingSalary;
        double salaryIncrease;
        double currentSalary;
        int i;

        System.out.print("Enter starting Salary: ");
        startingSalary = scnr.nextDouble();

        System.out.print("Enter salary increase rate:
");
        salaryIncrease = scnr.nextDouble();

        currentSalary = startingSalary;
        for (i = 0; i < 5; ++i) {
            System.out.println("$" + currentSalary);
            currentSalary = currentSalary *
salaryIncrease;
        }
    }
}
```

Q: If Starting salary is 10000 and increase rate 2.5 what is the last two numbers outputted

ANSWERS TO THE QUESTION :

ANSWER A) \$156250.0 , \$390625.0

ANSWER B) 100000 , 250000

ANSWER C) \$25000.0 , \$62500.0

ANSWER D) 20.0

REASONING: THE LOOP RUNS A TOTAL OF 5 TIMES DUE TO THE “ i < 5” MAKING THE LAST TWO VALUES 156250.0 , \$390625.0 100000 & 250000.

```
1 import java.util.Scanner;
2 public class Salary {
3     public static void main(String[] args) {
4         Scanner scnr = new Scanner(System.in);
5         double startingSalary;
6         double salaryIncrease;
7         double currentSalary;
8         int i;
9
10        System.out.print("Enter starting Salary: ");
11        startingSalary = scnr.nextDouble();
12
13        System.out.print("Enter salary increase rate: ");
14        salaryIncrease = scnr.nextDouble();
15
16        currentSalary = startingSalary;
17        for (i = 0; i < 5; ++i) {
18            System.out.println("$" + currentSalary);
19            currentSalary = currentSalary * salaryIncrease;
20        }
21    }
22 }
23
24
```

Execute Mode, Version, Inputs & Arguments

JDK 17.0.1

☐ Interactive

Stdin Inputs

CommandLine Arguments

10000 2.5

 Execute



Result

CPU Time: 0.20 sec(s), Memory: 38236 kilobyte(s)

compiled and executed in 0.737 sec(s)

```
Enter starting Salary: Enter salary increase rate: 10000.0
$25000.0
$62500.0
$156250.0
$390625.0
```

Question 4: Array Question

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

```
public class test {
```

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

```
        final int NUM_VALS = 4;
```

```
        int[] listOne = new int[NUM_VALS];
```

```
        int[] listTwo = new int[NUM_VALS];
```

```
        int i;
```

```
        Scanner input = new Scanner(System.in);
```

```
        listOne[0] = input.nextInt();
```

```
        listOne[1] = input.nextInt();
```

```
        listOne[2] = input.nextInt();
```

```
        listOne[3] = input.nextInt();
```

```
        listTwo[0] = input.nextInt();
```

```
        listTwo[1] = input.nextInt();
```

```
        listTwo[2] = input.nextInt();
```

```
        listTwo[3] = input.nextInt();
```

```
        for(i=0;i<4;i++){
```

```
            System.out.print(listOne[i] * listTwo[i] + " ");
```

```
        }
```

```
        System.out.println();
```

```
    }
```

```
}
```

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

Q: If the Input is 1, 5 ,10,15,2,4,6,8 What is the output?"

OPTION A) 2

OPTION B) 20

OPTION C) 60

OPTION D) 120

REASONING: NA

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```
1 import java.util.Scanner;
2
3
4
5
6 public static void main(String[] args) {
7     final int NUM_VALS = 4;
8     int[] listOne = new int[NUM_VALS];
9     int[] listTwo = new int[NUM_VALS];
10    int i;
11    Scanner input = new Scanner(System.in);
12
13    listOne[0] = input.nextInt();
14    listOne[1] = input.nextInt();
15    listOne[2] = input.nextInt();
16    listOne[3] = input.nextInt();
17
18    listTwo[0] = input.nextInt();
19    listTwo[1] = input.nextInt();
20    listTwo[2] = input.nextInt();
21    listTwo[3] = input.nextInt();
22
23    for(i=0;i<4;i++){
24        System.out.print(listOne[i] * listTwo[i] + " ");
25    }
26    System.out.println();
27 }
28
29
```

Execute Mode, Version, Inputs & Arguments

JDK 17.0.1

Interactive

Stdin Inputs

1 5 10 15 2 4 6 8

CommandLine Arguments

Execute

Result

CPU Time: 0.17 sec(s), Memory: 37236 kilobyte(s)

compiled and executed in 0.662 sec(s)

2 20 60 120