**LOVELY PROFESSIONAL UNIVERSITY**

**Assignment No. 4**

**School: SCA Faculty of: LFTS**

**Course Title: PROGRAMMING IN JAVA-LAB Course Code:CAP680**

**Section:D2217,D2221 Group 1**

**Date of Allotment:27 feb Last Date of Submission: 5 Mar**

**Important Guidelines:**

1. Allocated Question according to odd/even roll number in this Assignment.

2. After solving assignment in Sandbox make a pdf file and upload onto the prescribed link which will be shared by faculty member.

3. Refrain from indulging into plagiarism as copy cases will be marked zero

4. For every program it is mandatory to give proper documentation.

**Set-Odd**

Q:1.39.A doctor is giving advice to patient about how to maintain our body which type of food we should take. For that doctor asks for the number of calories and fat grams in a food. Then it display the percentage of calories that come from fat. If the calories from fat are less then 30% of the total calories of the food, it should also display a message indicating that the food is low in fat.

Note: consider one gram of fat has 9 calories

Q2:38.A class has 30 students .These student are divided into 3 groups of 10 each.The viva-marks of each

student are stored in each group. The teacher wants the zero marks obtained in grroup to be placed at the

eand of each grroup.The constraints is that the marks should be between 0 to 20.Help the teacher in

obtaining the task.

Input:

Group-A[15, 0, 17, 0, 18, 0, 3,11,18,20]

Group-B[9, 10, 4, 0, 8, 12, 0,0,18,17]

Group-C[16, 6, 2, 10, 0, 0, 0,11,9,5]

Output:

Group-A[15,17, 18,3,11,18,20,0,0,0]

Group-B[9, 10, 4, 8, 12,18,17,0,0,0]

Group-C[16, 6, 2, 10,11,9,5,0,0,0]

**Set-Even**

Q:1.36.Create tax calculator, a tax of rupees 1010 is deducted if the total income is strictly greater than rupees

100100.

Given that total income is XX rupees, find out how much money you get.

Input Format

The first line of input will contain a single integer TT, denoting the number of test cases.

The first and only line of each test case contains a single integer XX — your total income.

Output Format

For each test case, output on a new line, the amount of money you get.

Explanation:

Test case 11: Your total income is 55 rupees which is less than 100100 rupees. Thus, no tax

would be deducted and you get 55 rupees.

Test case 22: Your total income is 105105 rupees which is greater than 100100 rupees.

Thus, a tax of 1010 rupees would be deducted and you get 105−10=95105−10=95 rupees.

Test case 33: Your total income is 101101 rupees which is greater than 100100 rupees.

Thus, a tax of 1010 rupees would be deducted and you get 101−10=91101−10=91 rupees.

Test case 44: Your total income is 100100 rupees which is equal to 100100 rupees. Thus, no

tax would be deducted and you get 100100 rupees.

Q2:.Decode the array and generate the six-digit PIN number based on the following rules:

Find the cumulative sum of all the digits until you get a single digit.

Replace all the odd numbers with their respective alphabets in lowercase i.e. 1=a,

2=b,…….,9=i………

Hint: numArray={1,22,123,4242,45,46}

the cumulative sums are

={1,4,6,3,9,2}

=146392

After replacing all the odd numbers with alphabets

Output=a46ci2