Ranick Patra ⏻

00 Hr **25** Min **05** Sec

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ONLINE EDITOR (D)

Dice and Buckets

➕ Problem Description

We have a set of 6 dice and 49 buckets. Each bucket has the same volume. Each dice has 6 faces numbered with a digit between 1 and 9(both inclusive). It is not necessary to know which dice has which numbers. The numbers on a dice might be repeated. The buckets are numbered from 6 to 54. The 6 dice are rolled together at a time for 100 times to get the dice roll data 'x' given below. The buckets have a volume of 'm' units. After, the dice are rolled, the number on each of the visible face is summed up to a value, say 'n', and n units of liquid are added to the nth bucket. After a bucket is filled to 'm' units, the rest of the liquid added overflows out of the bucket.

The data of 100 rolls is given below:

Dice Roll Data(x)= [[4, 6, 3, 8, 1, 1], [6, 3, 2, 6, 4, 9], [3, 2, 8, 9, 4, 5], [4, 3, 1, 2, 7, 8], [6, 5, 9, 7, 1, 7], [5, 7, 4, 4, 4, 7], [9, 7, 6, 7, 2, 9], [4, 9, 3, 2, 5, 9], [7, 3, 2, 5, 8, 8], [3, 3, 1, 7, 4, 9], [5, 7, 3, 9, 9, 4], [9, 6, 5, 4, 9, 5], [1, 7, 8, 1, 1, 1], [9, 6, 3, 6, 8, 4], [3, 5, 2, 6, 5, 5], [4, 2, 5, 2, 2, 5], [3, 2, 2, 1, 5, 1], [1, 2, 7, 5, 9, 5], [5, 6, 2, 6, 6, 9], [3, 8, 3, 4, 8, 1], [7, 5, 7, 1, 9, 9], [7, 1, 2, 8, 3, 8], [7, 6, 3, 1, 3, 6], [2, 2, 5, 7, 2, 8], [7, 3, 5, 3, 4, 8], [9, 3, 5, 5, 8, 4], [8, 1, 3, 2, 1, 3], [3, 2, 5, 9, 4, 7], [8, 5, 8, 5, 2, 8], [7, 7, 4, 6, 5, 7], [9, 4, 4, 3, 6, 9], [2, 5, 2, 2, 1, 4], [3, 7, 7, 9, 7, 5], [7, 2, 7, 6, 6, 1], [1, 7, 3, 9, 9, 7], [7, 1, 1, 1, 4, 8], [6, 9, 6, 6, 4, 6], [9, 8, 9, 2, 5, 8], [8, 8, 8, 9, 6, 8], [8, 1, 9, 2, 4, 6], [5, 8, 2, 2, 4, 9], [8, 9, 8, 3, 7, 1], [7, 1, 5, 1, 6, 8], [8, 9, 9, 4, 8, 1], [9, 3, 4, 4, 2, 6], [2, 6, 8, 9, 6, 2], [5, 9, 3, 1, 9, 4], [9, 2, 7, 4, 7, 3], [1, 7, 8, 2, 7, 8], [8, 4, 4, 4, 6, 2], [3, 4, 8, 6, 8, 4], [6, 6, 9, 3, 9, 6], [1, 1, 4, 6, 6, 2], [6, 4, 4, 5, 7, 4], [4, 2, 1, 2, 3, 1], [8, 9, 5, 3, 4, 6], [3, 3, 5, 8, 2, 5], [9, 7, 3, 8, 7, 3], [9, 3, 6, 5, 7, 1], [7, 7, 2, 9, 1, 9], [6, 8, 7, 4, 5, 4], [5, 8, 5, 4, 2, 4], [7, 3, 4, 5, 9, 4], [4, 4, 9, 1, 8, 3], [5, 3, 9, 1, 3, 1], [1, 9, 6, 1, 1, 1], [1, 3, 1, 2, 9, 7], [5, 7, 2, 9, 7, 6], [2, 5, 1, 8, 9, 5], [5, 1, 8, 4, 1, 4], [4, 5, 1, 2, 5, 3], [1, 6, 3, 4, 3, 6], [5, 8, 4, 5, 7, 5], [7, 5, 5, 7, 2, 4], [6, 7, 1, 6, 8, 7], [3, 3, 6, 3, 1, 6], [7, 6, 8, 9, 6, 9], [2, 4, 5, 7, 1, 4], [1, 8, 4, 8, 2, 5], [7, 5, 6, 9, 9, 8], [8, 8, 1, 8, 9, 5], [5, 2, 8, 4, 5, 1], [9, 8, 1, 6, 8, 9], [1, 8, 9, 3, 6, 3], [3, 4, 5, 6, 2, 8], [8, 5, 9, 5, 3, 2], [7, 6, 5, 9, 6, 5], [7, 2, 7, 8, 7, 8], [5, 7, 6, 6, 9, 2], [5, 7, 2, 6, 2, 5], [4, 1, 6, 9, 4, 9], [1, 3, 4, 7, 4, 5], [5, 8, 9, 7, 4, 1], [1, 3, 8, 4, 8, 9], [2, 8, 7, 4, 8, 3], [7, 3, 5, 2, 2, 8], [1, 6, 5, 4, 1, 1], [1, 2, 6, 9, 6, 9], [8, 5, 2, 7, 3, 8], [2, 1, 2, 4, 1, 2]]

Your task is, given inputs x and m, print the following:

1. The total capacity consumed by buckets.

2. The total volume of liquid over flown from the buckets.

3. The total volume of empty space remaining in the buckets.

＋ Constraints

1. $0 < m <= 50$

2. m is an integer

＋ Input Format

First line contains an integer depicting volume of the bucket.

＋ Output

1. The total capacity consumed by buckets.

2. The total volume of liquid over flown from the buckets.

3. The total volume of empty space remaining in the buckets.
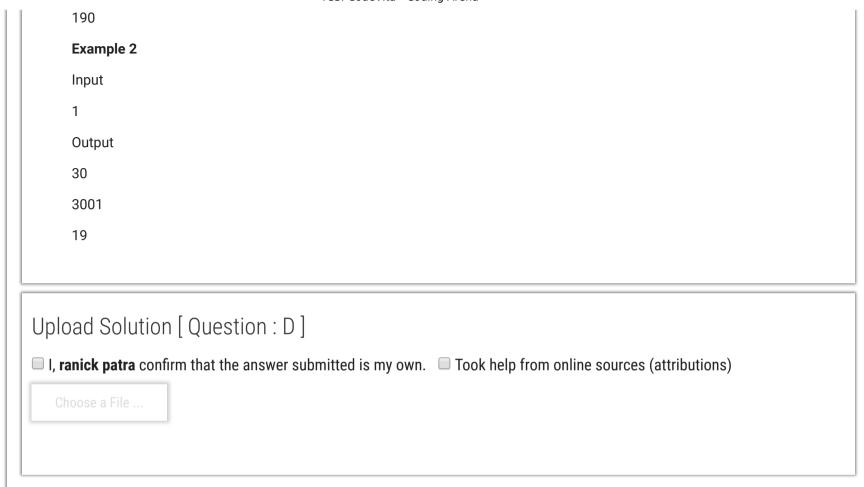
＋

＋ Explanation

Example 1

Input

10

Output

300

2731

190

Example 2

Input

1

Output

30

3001

19

Upload Solution [Question : D]

☐ I, **ranick patra** confirm that the answer submitted is my own.   ☐ Took help from online sources (attributions)

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