1.In this problem you have to find whether the input number is an Armstrong number or not.

In recreational number theory, a narcissistic number(also known as a pluperfect digital invariant, an Armstrong number(after Michael F. Armstrong)or a plus perfect number)is a number that is the sum of its own digits each raised to the power of the number of digits.

For EX:

Consider 153

1^3+5^3+3^3=153

Similarly Consider 1634

1^4 + 6^4 + 3^4 + 4^4 = 1634

One of the inputs to this problem is based on the result you've obtained from the previous querying problem.

2. Given an input string str, find out all the possible permutations of the given string. During each permutation sum up the ascii values of the middle character, after obtaining the sum do the operation:

Sum%100(modulo operator)

3. In this problem you have to find the least distance between a set of strings.

You would be given a sentence from which you have to find the least distance between the given set of strings.

One input to this problem is based on the result you've obtained from the previous querying problem.

4. In this problem you have to deal on finding the number of possible ways for attaining a specific score in a contest. In the contest you are awarded with 1 point for a correct answer and -0.5 for each wrong answer. It is not a necessity that the participant should attend all the questions. All permutations of the same number of right, wrong and unanswered questions is considered as a single way.

For Ex:

In a contest which has 30 questions .Assuming a certain score would be secured by you, find out the number of possible ways for attaining that score.

One of the inputs for this problem would be based on the result you've obtained from the previous querying round.