ANKARA UNIVERSITY

COM101B

Fall 2017

LAB5-Quiz

Date: 24/11/2017 Group 2

Duration: 90 minutes

Write a program that takes a character sequence and a 1-digit offset (number) sequence. Your task is to determine a new character sequence according to the given specifications. You will be encoding your character sequence into some numeric values and then selecting the ones that satisfy a given criteria.

You will first convert the letters to numeric values according to this simple rule: 'a' is 1, 'b' is 2, 'c' is 3 and so on..Then, you will modify each number by adding its corresponding offset in the sequence. Each number has a 1-digit offset in the sequence. In the end, you will print the characters that are encoded with an even number. Please look at the given example:

For example: Assume that the input is given as:

>bacefd 638532

*Your program will re-arrange the caharacter data as : 213564 such that each number is encoded according to the rule given above: b:2, a:1, c:3, e:5, f:6, d:4.

*You will be adding the offsets 6,3,8,5,3,2 in the given order to your numeric representation of the input data: 2+6, 1+3, 3+8, 5+5, 6+3, 4+2.

* Hence your encoding will be: 8-4-11-10-9-6. That correspond to 8 for b, 4 for a, 11 for c, 10 for e, 9 for f and 6 for d.

*Print the character sequence from left to right order that are encoded with even numbers. In this example, {b, a, e, d} have even encodings, hence the output character sequence will be:

>baed

*You can assume that the character sequence will not exceed 50 characters.

*The character sequence will include only the small letters: {a,b,...,z}

*You will assume that for each caharacter there will be an offset number in the input.

Input Format:

<character sequence without space>[space]<offset sequence>

Ouput format:

<output character sequence without space>\n

Submission: Your source code will be named using your student ID: <student-id>.c

Ex: if your id is 1123456 than you should name your source code like this: 1123456.c

Please test your program thoroughly before submission.
Good luck ☺