

SBSC C# ASSESSMENT

(simplicity is the prerequisite for reliability)

1. Given a string of hyphen separated numbers return true where k is the same for all numbers otherwise return false.

k is the interval between a number and the next.

Example1:

Inputs:

Sample string: "1-2-2-4-5"

Output: False.

Example2:

Input:

Sample string:"3-4-5-6-7"

Output: True.

2. Given an ordered list of integers you are expected to find the absolute difference D, then insert D into the list. Do this until the difference between all integers exist in the list then return the Kth integer. If the Kth integer cannot be found return -1.

Hint: no integer must exist more than once.

D is the absolute difference between an integer and the next.

K is the position of an integer in the list.

Example1:

Inputs:

List of integers [1,4,6,9]

Value of K: 3

Output: 7

Example2:

Inputs:

List of integers [1,2]

Value of K: 5

Output: -1

3. Given a string compute how many times a letter occurs in the string and return it formatted such that every non-repeated letter in the string is followed by its number of occurrences.

Example:

Input: occurrence

Output: o1c3u1r2e2n1