# CloudxLab Written Test

Instructions:

1. Please solve below problems and send the answers in email to reachus@cloudxlab.com with the subject "CloudxLab Written Test: Solutions"
2. Attached the solutions in the email with proper file extension so that we can compile and run it.
3. Please make sure that your that your code is getting compiled and running properly else we will not take your application forward.

## Problem 1:

Given an array X and a number y, find the contiguous subarray of smallest length whose sum is greater than y. Note that array X contains only the positive numbers

Example

Test 1 - X = [9, 18, 42, 98], y = 21

Output subarray can be either [42] or [98]

Test 2 - X = [9, 18, 2, 4, 5], y = 21

Output subarray of smallest length is  [9, 18]

## Problem 2:

You are given a CSV file **employees.csv** as shown below. In this file,  the managerid column refers to the id of the employee who is a manager. So, the manager is also an employee. For example Ramesh is the manager of Dinesh in the CSV file given below.

employees.csv

**Id, name, managerid**
1, Dinesh, 2
2, Ramesh, 4
3, Sandeep, 4
4, Abhishek, NULL

You have to read this csv file and create a tree like structure in which parent node is the manager of the child node. You can use "\t" tab for indentation or showing the hierarchy.

**Output for the above file -**

Abhishek - 4
        Ramesh - 2
                Dinesh - 1
        Sandeep - 3

Please comment your code properly so that we can understand your approach.