Goldman Sachs Pre-Screen Coding Questions

1. A popular online retailer allows vendors to specify different prices in advance

for the same item throughout the day. We now need to design an algorithm that

helps identify the lowest price for the item at any point of the day.

Assumptions:

1) For the algorithm, assume all vendors are selling the same product

and there is only one product being sold. Given a list that has

vendor information - ( startTime, endTime, price ) of the deal,

return a sorted list with different possible intervals and

the least price of the product during the interval.

2) The interval is inclusive of start and end time.

3) All the 3 values passed by the vendor are integers.

Answer: Question 1

1. Given a 2-D String array of student-marks find the student with the highest average and output his average score. If the average is in decimals, **floor it down** to the nearest integer.

Example: Input: [{"Bob","87"}, {"Mike", "35"},{"Bob", "52"}, {"Jason","35"}, {"Mike", "55"}, {"Jessica", "99"}]

Output: 99

Explanation: Since Jessica's average is greater than Bob's, Mike's and Jason's average.

Answer: Question 2

1. Given an input string, return the letters missing in order to make it an pangram. The return string should be in alphabetical order.

Assumptions:

1) Input string can be case insensitive

2) Input string can contain non alphabetic characters and it should ignore these

Answer: Question 3