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Amazon SDE-2 interview experience

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Just attended a lateral hiring for Senior Development Engineer, Amazon at Amazon, Gurgaon. Was asked the following questions.

Round 1
Q1 [Find the max of each window of size k in a given array.](#)
Q2. [Given an even length expression consisting only of \xe2\x80\x98{\xe2\x80\x98 and }\xe2\x80\x99, find the min. number of edits needed to make it a valid balanced expression.](#)

Round 2
Q1. [Given a text and a search string, find the shortest substring of the text containing the anagram of the search string.](#)
i/p : text \xe2\x80\x93 abcdbabcba, search string \xe2\x80\x93 abb
o/p: abcb

Q2. Given a map that maps two integers such that the key is the source level, and value is the max level reachable from the source level, find the min. steps needed to reach the last level beginning from the first level.
eg: i/p: 1->4, 2->3, 3->6, 4->5, 5->8, 6->7, 7->8, 8->-1 (-1 indicates that last level has been reached).
o/p : 3 [1->4, 4->5, 5->8 = 3 steps]

Q3. Given a list/ array of sentences (consisting of alphabetical words), print the sentence(s) that has/have at least as many consonents as it has vowels, and which contains the word that occurs most frequently amongst all the given sentences.

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