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Amazon Interview Experience | Set 303 (On-Campus)

- Difficulty Level :\nEasy
- Last Updated :\n28 Jun, 2021

Round 0: (Written): 20 MCQs + 2 Coding Questions

MCQs \xe2\x80\x93 Topics:\xc2\xa0OS ,DS ,DBMS \xe2\x80\x93 (Serialization etc.), Aptitude (simple puzzle kind.)
Coding Questions:

- Given a string output reverse string (string could have multiple spaces between the words).
  Example:
  i/p: I am a proud Indian.
  o/p:
  Indian proud a am I.
- Given a no in string format output another string which is the biggest no formed from using same digits , otherwise print -1:

  i/p:\r\n0000\r\n132\r\n4312\r\n11\r\n**o/p:\r\n**0\r\n321\r\n432\r\n-1\r\n

  So the solution is : http://stackoverflow.com/questions/12493591/given-an-array-of-integers-find-the-largest-number-using-the-digits-of-the-array

DAY 2: (Interview Rounds)

Round 1 (Technical Interview \xe2\x80\x93 45 min approx.)
The Interview started with his introduction , what his department is , what do they do and so on.

- Given a link list of 0\xe2\x80\x99s and 1\xe2\x80\x99s sort it so that all the 0\xe2\x80\x99s are at beginning and 1\xe2\x80\x99s at the end.\xc2\xa0It had to be in-place.
  You cannot swap values only pointers.Order of 0\xe2\x80\x99s and 1\xe2\x80\x99s was to be maintained . I\xc2\xa0had to write production level code for this with all boundary conditions checked!
- Given an array of 0\xe2\x80\x99s and 1\xe2\x80\x99s again and a variable k , print the size of the smallest window which contains exact k 0\xe2\x80\x99s .
  - discussion about the best optimised approach .
  - I solved it by storing indexes of all 0\xe2\x80\x99s and calculating min diff b/w every k elements.

Round 2 (Technical Interview \xe2\x80\x93 1 hr approx.)
The interviewer asked me to introduce myself and then my projects.

- A person has to cross a road and with each step he either gains some energy or loses some (this info is provided as an array) . Find out the min amount of energy he should start with so that at any level his energy is not less than 1).
  Simple question done in O(n).
- How to solve (a*b)%m , where all a,b,m are of the order 10^15. Modulo\xe2\x80\x99s distributive property is one thing .
  1st approach suggested was breaking the no\xe2\x80\x99s to binary as solving for eg:- [(2^5 + 2^3 + 2^0) * (2^5)] % [(2^3 + 2^2 + 2^0)] is feasible,\xc2\xa0but he wanted faster approach.
  I suggested O(lg b) approach using divide n conquer (recursive solution) .
- He asked me if I know about the data structure Trie , I had heard about it and its use but never

implemented it. He explained a briefly what it is , then told me to code its structure , its functioning (finding / adding a new word) .
Then asked a few questions on it , some cases where it will falter , some more discussion on it.

Thanks Geeks ! Result \xe2\x80\x93 Selected \xf0\x9f\x99\x82

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All Practice Problems for Amazon !

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