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Amazon Interview | Set 70 (On-Campus For Internship)

- Difficulty Level :\nHard
- Last Updated :\n18 Jun, 2019

Online Round Coding Question:

1. Given a float number 7.64, convert it into the string WITHOUT using any inbuilt function/library.

   ```
   for eg:\r\ninput\r\nfloat no.: 7.64\r\noutput\r\nstring: 7.64
   ```

2. Given the inorder and preorder traversals of a Binary Tree, output the postorder traversal of it.

   ```
   for eg:\r\ninput:\r\nInorder: 7, 8, 4, 1, 6, 2, 5\r\nPreorder: 1, 4, 7, 8, 2, 6, 4\r\noutput:\r\nPostorder: 8, 7, 4,
   ```

Round 1 written:

1. Given a string find the length of longest substring which has none of its character repeated?

   ```
   for eg:\r\ni/p string:\r\nabcabcbb\r\nlength of longest substring with no repeating charcters: 3 (abc)
   ```

2. Given a link list with right pointers and each element of the list has a down link contains another link list with down pointers as:

   ```
    5 -> 7 -> 9 -> 18\r\n |    |    |    |\r\n10    6    14   20\r\n |    |    |    |\r\n11    8    19   22\r\n |    |
   ```

   each right and down list are sorted.
   Write a function flatten() which flattens this link list to a single link list with all the elements in sorted order as:
   5->6->7->8->9->10->11->12->13->14->15->18->19->20->22->24

PI Round 1:
The interview started with discussions and questioning about the internship project and other projects mentioned in my Resume.
After the discussions about projects interviewer asked a question on string the question was:

1. A string of length n and an integer m was given, give an algo. to rotate the string counter clockwise by m. I was asked to give all the check conditions for input m.
   Then the interviewer asked me to write a code for the same with a strict guideline that there should not be any mistake in the code ;).
2. After this he asked me about heap, min and max heap, insertion and deletion in a heap. He asked me to prove that the time complexity of inserting n elements in a heap.
   At-least he asked about the uses of heap data structure and other data structure which are implemented using heap.

PI Round 2:

1. What is the difference b/w abstract and interface class?
2. Write a program to create single thread and print \xe2\x80\x9cHello World\xe2\x80\x9d, stating all the arguments of createThread function?
3. What is a deadlock and what are the condition necessary for the deadlock to occur?
4. What is a cache memory and how it is implemented?
5. Explain LRU, FIFO and other page replacement algorithms?
6. write a code to implement LRU cache and then implement full cache memory?

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All Practice Problems for Amazon !

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