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Amazon Interview Experience | Set 393 (On Campus For Internship)

- Difficulty Level :\nEasy
- Last Updated :\n07 May, 2021

Online Coding Round:-\xc2\xa0
There were 2 coding questions and 20 MCQ\xe2\x80\x99s.\xc2\xa0

1. Given an array find all the triplets having their sum of elements less than a given number k.\xc2\xa0
   GeeksforGeeks Link
2. Find The N-th Magic Number.

1st Interview Round(Face To Face):-
The interviewer was very friendly. He went through my CV and asked me if I had any project. To which I replied no and told him that I am currently on a project, and later I gave him a brief explanation of it. For those who didn\xe2\x80\x99t do any project don\xe2\x80\x99t worry much.\xc2\xa0
He asked me 2 questions\xc2\xa0

1. Generating All the Possible Subsets(Subset Iteration).\xc2\xa0
   GeeksforGeeks Link
2. Slight Modification of BFS on a grid. I told him my approach, and he was satisfied with that.

After I told my approach for the 2nd question he told me to write a Pseudo Code for BFS in a graph. He was the best interviewer I faced till now.\xc2\xa0
The interview lasted for around 45 mins.
Other people were given questions like\xc2\xa0

1. The middle element in a linked list.\xc2\xa0
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2. Merge Sort in a Double Linked List.\xc2\xa0
   GeeksforGeeks Link
3. Merge Two Sorted Arrays.\xc2\xa0
   GeeksforGeeks Link
4. Given A Binary Tree, For every Leaf Node print sum of the values from the root node to the leaf node.\xc2\xa0
   GeeksforGeeks Link
5. Quick Sort\xc2\xa0
   GeeksforGeeks Link
6. LCA in Binary Tree and Binary Search Tree.\xc2\xa0
   - LCA in Binary Search Tree
   - LCA in binary tree

2nd Interview Round(Face To Face):-\xc2\xa0
This interviewer was also very friendly. He also had a good knowledge of Coding. He asked me how was my previous round, I replied that it went well. And later he asked me what questions I was asked in the previous round. I told him the questions which I was asked in the previous round, and also I explained their solutions.\xc2\xa0
He asked me 2 questions.\xc2\xa0

1. Print the Binary Tree in A Spiral Order.\xc2\xa0
   GeeksforGeeks Link
2. lli stands for long long int in this question.
   He gave me a question in the form of a function. And here goes the question.

CPP

```
// a1(size1) and a2(size2) are arrays and you
\xc2\xa0\xc2\xa0// have to append them.
\xc2\xa0\xc2\xa0lli* Append(lli* a1,lli* a2,lli size1,lli size2)
\xc2\xa0\xc2\xa0{
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0}
```

Simple But Wrong Solution

CPP

```
lli* Append(lli* a1,lli* a2,lli size1,lli size2)
\xc2\xa0\xc2\xa0{
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0lli a[size1+size2],i;
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0for(i=0;i<size1;i++)
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0{
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0a[i]=a1[i];
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0}
\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0for(i=0;i<size2;i++)
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0{
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0a[i+size1]=a2[i];
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0}
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0return a;
\xc2\xa0\xc2\xa0}
```

I told him that the above code actually fails. He asked me why it fails. I answered him this way. The array a is actually in the function Append and once you leave the function the scope of this array ends. He asked me how to do it then. I had no idea. Later he told me that we have to allocate memory for the array using malloc. Later on, he explained to me how it works using heap memory.

For my friends, he asked the question in a different way(Merge Two Sorted Arrays).
Thanks to GeeksForGeeks For my interview preparation.
This article is contributed by **Mandava Desik**. If you like GeeksforGeeks and would like to contribute, you can also write an article using contribute.geeksforgeeks.org or mail your article to contribute@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks.
Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above.

All Practice Problems for Amazon !\xc2\xa0
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