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# Amazon Interview | Set 112 (On-Campus)

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Amazon visited our campus and was hired as intern. These are the questions that I faced.

**Online Round (90 minutes)**
20 Basic MCQs (Data structure, C, C++, OS, Aptitude, Networks).
2 programs :
1. Given a text txt[0..n-1] and a pattern pat[0..m-1], write a function search(char pat[], char txt[]) that prints all occurrences of pat[] and its permutations (or anagrams) in txt[]

```
\r\nE.g. : I/p : txt[] = \xe2\x80\x9cBACDGABCDA\xe2\x80\x9d pat[] = \xe2\x80\x9cABCD\xe2\x80\x9d\r\no/p :0,5,6
```

2. There is a matrix mat[m][n] with entries as 0 or 1 When you are at 1 you can move in all the eight directions and when at 0, you have to return back. Find the number of cluster of 1\xe2\x80\x99s

```
\r\ne.g. input  { {1,1,0,0,0},\r\n              {1,0,0,1,0},\r\n              {0,0,0,1,1},\r\n              {1,0,1,0,0}  }
```

**Round 1:**
1) Introduce yourself.

2) Any moment when you worked really really hard to solve a problem.

3) Find the best fit for a packet to be fitted in a rack rack sizes are given in increasing order in other words find the ceil value of a key in sorted array.

4) Check given binary tree is BST or not

5) Find the lowest common ancestor in binary tree
6) If I have any question to ask him

**Round 2:**

1) Find largest sum contiguous subarray in goven array
2) If I had any question to ask him

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**All Practice Problems for Amazon** !

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