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Amazon Interview | Set 64 (Off-Campus for SDE)

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

I am sharing my off campus SDE interview experience with Amazon.

Online round: (1hr)

1. [Given coin array and a sum K, find min. number of required coin to make sum K.](#)
2. [Two rectangles are given in two D space. Find if these are overlapping or not](#)
3. [KMP for pattern searching](#)

After two days I got the call to come Amazon office for F2F interviews:

1st Round:

1. [Program to construct binary tree from its inorder and preorder traversal.](#) (algo+code)
2. [Reverse every k-element in a linked list](#)(algo+code)

2nd Round:

1. Tell me about one of your best project in detail.
2. Design Restaurant reservation system.

3rd Round:

1. [Given a binary search tree of n nodes, find all the pair of\xc2\xa0 nodes whose sum is equal to a given number k](#)in O(n) time and constant space.(algo+code)
2. Given a function \xe2\x80\x9cf\xe2\x80\x9d in which 0 occurs with probability 0.4 and 1 occurs with probability 0.6. Using function \xe2\x80\x9cf\xe2\x80\x9d deduce a new function \xe2\x80\x9cf1\xe2\x80\x9d such that both 0 and 1 occurs with probability 0.5
3. Given a matrtix, find the maximum sum subarray in it.(algo+code)

After one week I got the call from HR for my BR round.

4th Round (BR Round):

1. \xc2\xa0Tell me about yourself.
2. \xc2\xa0Why are you looking for change?
3. \xc2\xa0How will you handle conflict with your manager?
4. What is the most challenging work done by you \xc2\xa0in your current company?
5. Lots of discussion happened about current company\xe2\x80\x99s project.
6. Given a number N, find the smallest 3 digits number\xc2\xa0 such that product of its digits is equal to N. (algo+ optimal code)

In all the rounds, the most optimal production quality working code was required and if you get stuck, then they will give you HINTS but don\xe2\x80\x99t consider this in your favor!

\xc2\xa0
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[All Practice Problems for Amazon](#) !

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