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## Amazon Interview Experience | Set 169 (For SDE 2)

- Difficulty Level : \n[Expert](#)
- Last Updated : \n27 Jun, 2019

Recently I was interviewed for the position of SDE 2 I have 4 years of work experience .Following were the asked.

Note: For all of the question production level code was required.

### Round 1:

1. [Write a program to convert a integer to its form in a given language .](#)

For example 112345 Could be one hundred twelve thousand three hundred forty five or One lac twelve thousand three hundred forty five.

2. [Find the top k frequent items in a stream of numbers Space](#)  $O(k)$

### Round 2:

It was basically a design round .

1.Design a Chess board so that two players can play.Each of the play can make any warrior move.Class Diagram and basic functions were asked to be written.

2.Design a key value pair storing system in a distributed system

Questions on types of caching in distributed systems , Sharding

How will you be handling scalability , failover and latency.

### Round 3:

[Given a 2 D array with m Entry points \(which are on the edges\) and n exit points which are on the edges give the total number of paths that are possible](#) .Complete production level code was to be written

### Round 4: Bar Raiser Round

1.given a large file with contents like

- 1.CAT
- 2.DOG
- 3.TAC
- 4.ACT
- 5.GOD
- 6.ODG

Re-arrange it such that every line has the index of all of its anagrams

Eg Output

- 1.CAT 1,3,4
- 2.DOG 2,5,6
- 3.TAC 1,3,4
- 4.ACT 1,3,4
- 5.GOD 2,5,6
- 6.ODG 2,5,6

2. [Given inorder and postorder traversal of a tree give the preorder traversal without creating the tree.](#)

### Round 5 Hiring Manager Round

### 1. [Nut and Bolts Problem](#)

2. Given a million list of co-ordinates in the form of longitude and latitude just as Google maps .How will you print closest k cities to a given location .

After that a few behavioural questions

I was not able to come up with a good answer for second question.

I thank geeksforgeeks for creating this amazing platform.Great job guys.

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[All Practice Problems for Amazon !](#)

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