

System Design Interviews

```
public class Solution {  
    public TreeNode invertTree (TreeNode root) {  
        if (root == null) {  
            return null;  
        }  
        final TreeNode left = root.left;  
        final TreeNode right = root.right;  
        root.left = invertTree(right);  
        root.right = invertTree(left);  
        return root;  
    }  
}
```



System Design Interview

What is a system design interview and why it is important?

What is System Design Interview

- In this type of interview you are asked to design a system or application from scratch
- Usually the interview lasts for 45 mins or an hour
- Requires a broad set of knowledge.
- Involves concepts of scalability, availability and sometime security.

Sample Question :

Q1. Design a mobile application like Uber ?

Q2. Create a chat messenger like WhatsApp, take scalability into account ?

Why they are difficult ?

- Broad range of knowledge required
- Even if you are asked the same question that you have read before different interviewers might expect different answer for the same question
- Usually required to write code on white board which requires some practice before hand.

Sample System Design Interview Questions

- Design an ecommerce website like Amazon, FlipKart ?
- Design a chat messenger service like WhatsApp ?
- Design an autocomplete feature like on google search engine ?
- Design a search engine ?
- Create an Uber like service to find a nearby taxi or Create a yelp like service ?
- Design a ticketing system to book cinema tickets online ?

Why these interviews are Important ?

- Almost all top software companies have this round of interview.
- Clearing this interview helps in negotiating a better offer.
- Preparing for this interview helps us broaden our own knowledge level in different technologies.

References

- [Crack the system design interview.](#)
- [How to ace a system design interview.](#)
- [Best way to prepare for system design interview.](#)
- [Popular system design interview questions.](#)
- [System design interview questions.](#)

References

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