**Indeed whiteboard coding interview by Skype:**

They will introduce themselves briefly, ask shortly about your background, but then they will start asking the coding questions:

**Example questions from past candidates:**

* *Create like a music shuffle playlist, how to code?*

*How to make sure the system does not play the same song twice, take out the duplicate.*

* *Write a function to find out whether there are any two numbers from a list of numbers, whose sum equals to value k.*
* *Give an array and an integer sum, find out if there exists a combination of two >elements in array that sum up can equal to the given sum. After coding, he asked me to provide another version to improve the codes*
* *Question about binary tree level order traversal from leetcode*
* *Question about statistic on a data flow. e.g. To find the mean and median of the data in a given time interval*
* *Question about serialization of a binary tree.*
* *Question about python grammar*
* *Question: Suppose there are two operations,*

*r(x) -> add a record of value "x" to a certain data structure D*

*m() -> get the average of all the values in D that was inserted in the last 5 minutes.  
For example, r(10),r(11),r(5), suppose r(10) was inserted 10 minutes ago, and both the following operations were done in*

*the last 5 minutes, then when the next operation is m(), return 11 + 5 / 2 = 8.*

*Write the code to implement these ideas*

*Extra questions*

*1.Calculate the time & space complexity of the algorithm you used*

*2.If m() happens frequently and the data structure is very big, is your algorithm still efficient?*

* *You are given a file with Python code. Write a program to valid the indent of the program. The input of the program can be a list of string or an array of string. The output can be boolean. If the code is valid then return true otherwise return false. The indent rules for Python are as following: 1 if the statement is ended with ":" then it is control statement. 2 a statement following a cs statement must indent at least one more space. 3 a statement following non-cs has two options: it is exactly same indented as previous statement or it indent as previous valid indent. 4 you don't need to do any logic check to the code such as else statement is following if statement.*

You can write in the language you are good in, like Java, C/C++, Python, etc.

They use <https://code.stypi.com> as the online code editor during the Skype interview

**Advice:**

-Make sure to understand the requirements correctly. Ask back the interviewer if you are not sure.

This will help you make the right code.

Then there will be Q&A on what you wrote down, like:

- Why did you do it like this?

- Would this be better, what do you think?

These links might help as well, as they have sample questions as well:

<http://javarevisited.blogspot.com/2011/06/top-programming-interview-questions.html>

<http://javarevisited.blogspot.com/2013/03/top-15-data-structures-algorithm-interview-questions-answers-java-programming.html>

<http://www.programcreek.com/2012/11/top-10-algorithms-for-coding-interview>