

Live Session: Java-Live Solving Practice

Welcome to the live session on 'Java- Problem Solving Practice'. The live session length will be 2 hours 15 minutes.

In this session, the SME will be covering some of the intermediate concepts of Java.

This session will be mixed of Java and hands-on coding session and will be covering the following topics

in the agenda

- Basic Java Problem Solving Questions
- Arrays Practice Questions
- Strings Practice Questions

Note for the SME:

- This is going to be a purely interactive session wherein the trainer would try to engage students more.

- Before running the code on a sample test case, ask the learners about their outputs.

The code demos will be within IDE on a local machine.

- Please make sure to test run your codes/queries prior to the session to avoid any hick-up during the session.

- For each coding question practice using multiple approaches to help student reach to optimal solution through each approach.

Part I: Basic Java Problems (36 minutes)(10-12 problems)

- a. Start with Basic Java Problems covering multiple choice questions from the topics covered in previous two sessions.
- b. For each question try to close multiple choices as close as possible, and keep on asking students the thought process between the choices they are making
- c. Try to touch upon intricacies missed out in previous sessions using these problems

Doubts_pause: (2 mins)

Please check if they have any doubts from the topics covered so far

Part 2: Arrays Problems(45 minutes)(3 medium problems)

- a. SME is free to pick up 3 problems of their choice. The problem should be medium level problem
- b. SME can start with an overview of previous covered questions if these new problems are in continuation of the previous ones(preferred approach)
- c. SME should give students time to think of a solution before sharing the working code, and build on a solution with them to develop analytical thinking
- d. One problem on matrix should be covered in this session.

Doubts_pause(2 minutes)

Part 3: String Problems(45 minutes)(3 medium problems)

- a. SME is free to pick up 3 problems of their choice. The problem should be medium level problem

- b. SME can start with an overview of previous covered questions if these new problems are in continuation of the previous ones(preferred approach)
- c. SME should give students time to think of a solution before sharing the working code, and build on a solution with them to develop analytical thinking
- d. One problem on pattern matching should be covered in this session.

Doubts_pause: 5 minutes

SME should make sure the questions covered in class are clear with respect to approach to all the students. This is a very critical session to develop analytical thinking. Focus should be on quality problem coverage.