Coding interview questions on stream APIs

Basic question starts here

Case1:

Given below are the questions that are discussed in this video

Top 20 coding interview questions in Streams API

Using List of Strings

Basics

1. Convert a list of strings to uppercase, sort them and print

2. Get the list of strings where the length of each element is greater than 5 and get the count

3. Remove duplicates from a list

4. Get the list of strings having a particular word

5. Write a Java program to remove strings that start with a specific word from a list using streams.

6. Find the first element in a list that starts with a particular letter

7. Get the length of each name in a list

Intermediate

8. Sort the list of strings based on their lengths in ascending/descending order.

9. Find the longest word in the list.

10. Get the list of strings having vowels

11. convert a list of strings into a single string, separated by commas, using streams

12. Write a Java program to create a new list of strings, where each string is reversed from the original list, using Java streams.

13. Write a Java program to remove all strings from the list that are empty or null using streams.

Advanced

14. Given a list of strings, group a list of strings by the first letter of each string using streams

15. Given a list of strings, group a list of strings by the length of the string

16. Given a list of strings, create a map where the key is the first letter of the string, and the value is a list of strings that start with that letter using streams

17. Given a list of strings, group the list of strings with vowels and no vowels into two lists

18. Given a list of strings print only the string elements excluding the digits using streams.

19. Given a list of strings find the first element having the length as 10 if not handle exceptions

20. Reverse the list of strings using streams api

Case2:

Given below are the questions that are discussed in this video

Top 20 coding interview questions in Streams API

Using List of Numbers

Basics

1. Get the even/odd numbers from an array of numbers and list of numbers

2. Get the even/odd numbers between a range

3. Sort a list of integers in descending/ascending order

4. Calculate the sum and average of numbers in an array and list of numbers

5. Find the maximum/minimum number in an array/list of numbers

Intermediate

6. Remove duplicate elements from an array/list of integers

7. Convert a list/array of integers to a list of their squares and print them

8. Find the sum of squares of all the numbers in the array/list.

9. Get the second largest number and second smallest number in a list/array

10. Get the first number greater than 50 in a list/array

Advanced

11. Get the sum of numbers of a two-dimensional array and list of lists of integers

12. Convert an array of integers into a map where the key is the number and the value is its square

13. Partition an array of integers into two groups: even and odd using Streams.

14. Calculate the product of all numbers in the array using reduce

15.implement a parallel stream that computes the sum of squares of numbers in an array.

Case3:

Basics

1. Find all employees from a specific city and get the count

2. Find all employees where salary is greater than a particular value

3. Print all the employee names only in upper case and alphabetical order

4. Get the first employee where dept is "HR" and if not available throw exception

5. Get the total salary of all employees in a specific department

Intermediate

6. Check if all employees have a salary greater than a specific Value

7. Get the sum of salaries of all employees and the average salary

8. Get a Map of Employee Names and their salaries

9. Print the employee details from highest to lowest salary

10. Get the employees with the highest salary

11. Get the employees with the second highest salary

12. Get the employees who are earning above the average salary

13. Get the employee with the longest name

Advanced

14.Group all employees by department

15.Get the count of employees by department

16.Get the sum of salaries of all employees by department

17.Get the average salaries of all employees per department

18.Check if all employees belong to a specific department

19.List all employees grouping by cities but belong to the same department

20.Find the department with the highest average salary