

Java 8 Interview Sample Coding Questions

Java Concept Of The Day

Separate Odd And Even Numbers	Remove Duplicate Elements From List
<pre>listOfIntegers.stream() .collect(Collectors.partitioningBy(i -> i % 2 == 0));</pre>	<pre>listOfStrings.stream().distinct().collect(Collectors.toList());</pre>
Frequency Of Each Character In String	Frequency Of Each Element In An Array
<pre>inputString.chars() .mapToObj(c -> (char) c) .collect(Collectors.groupingBy(Function.identity(), Collectors.counting()));</pre>	<pre>anyList.stream().collect(Collectors.groupingBy(Function.identity(), Collectors.counting()));</pre>
Sort The List In Reverse Order	Join List Of Strings With Prefix, Suffix And Delimiter
<pre>anyList.stream().sorted(Comparator.reverseOrder()).forEach(System.out::println);</pre>	<pre>listOfStrings.stream().collect(Collectors.joining("Delimiter", "Prefix", "Suffix"));</pre>
Print Multiples Of 5 From The List	Maximum & Minimum In A List
<pre>listOfIntegers.stream() .filter(i -> i % 5 == 0).forEach(System.out::println);</pre>	<pre>listOfIntegers.stream().max(Comparator.naturalOrder()).get(); listOfIntegers.stream().min(Comparator.naturalOrder()).get();</pre>
Merge Two Unsorted Arrays Into Single Sorted Array	Anagram Program In Java 8
<pre>IntStream.concat(Arrays.stream(a),Arrays.stream(b)) .sorted().toArray();</pre>	<pre>s1=Stream.of(s1.split("")).map(String::toUpperCase).sorted().collect (Collectors.joining()); s2=Stream.of(s2.split("")).map(String::toUpperCase).sorted().collect (Collectors.joining()); If s1 and s2 are equal, then they are anagrams.</pre>
Merge Two Unsorted Arrays Into Single Sorted Array Without Duplicates	Sum Of All Digits Of A Number
<pre>IntStream.concat(Arrays.stream(a),Arrays.stream(b)) .sorted().distinct().toArray();</pre>	<pre>Stream.of(String.valueOf(inputNumber).split("")) .collect(Collectors.summingInt(Integer::parseInt));</pre>
Three Max & Min Numbers From The List	Second Largest Number In An Integer Array
<pre>//Min 3 Numbers listOfIntegers.stream().sorted().limit(3).forEach(System.out::println); //Max 3 Numbers listOfIntegers.stream().sorted(Comparator.reverseOrder()).limit(3).fo rEach(System.out::println);</pre>	<pre>listOfIntegers.stream().sorted(Comparator.reverseOrder()).skip(1) .findFirst().get();</pre>
Sort List Of Strings In Increasing Order Of Their Length	Common Elements Between Two Arrays
<pre>listOfStrings.stream().sorted(Comparator.comparing(String::length)). forEach(System.out::println);</pre>	<pre>list1.stream().filter(list2::contains).forEach(System.out::println);</pre>
Sum & Average Of All Elements Of An Array	Reverse Each Word Of A String
<pre>//Sum Arrays.stream(inputArray).sum(); //Average Arrays.stream(inputArray).average().getAsDouble();</pre>	<pre>Arrays.stream(str.split(" ")) .map(word -> new StringBuffer(word).reverse()) .collect(Collectors.joining(" "));</pre>
Reverse An Integer Array	Sum Of First 10 Natural Numbers
<pre>IntStream.rangeClosed(1, array.length) .map(i -> array[array.length - i]) .toArray();</pre>	<pre>IntStream.range(1, 11).sum();</pre>
Palindrome Program In Java 8	Find Strings Which Start With Number
<pre>IntStream.range(0, str.length()/2) .noneMatch(i -> str.charAt(i) != str.charAt(str.length() - i -1));</pre>	<pre>listOfStrings.stream() .filter(str -> Character.isDigit(str.charAt(0))) .forEach(System.out::println);</pre>
Last Element Of An Array	Find Duplicate Elements From An Array
<pre>listOfStrings.stream().skip(listOfStrings.size()-1).findFirst().get();</pre>	<pre>listOfIntegers.stream() .filter(i -> ! set.add(i)) .collect(Collectors.toSet());</pre>
Age Of Person In Years	Fibonacci Series
<pre>LocalDate birthDay = LocalDate.of(1985, 01, 23); LocalDate today = LocalDate.now(); System.out.println(ChronoUnit.YEARS.between(birthDay, today));</pre>	<pre>Stream.iterate(new int[] {0, 1}, f -> new int[] {f[1], f[0]+f[1]}) .limit(10) .map(f -> f[0]) .forEach(i -> System.out.print(i+" "));</pre>