Coding & Interview Questions

- Finding 2nd maximum element of an array, rotating an array or something similar.
- There were particular numbers given like 1, 3, 7, 9. I had to construct numbers consisting of these digits like 13, 37, 79, 93…n in any order. There was a limit given, suppose 37. I had to print the count of how many numbers in this range can be formed using the provided digits.
- Problem based on longest palindromic sub sequence
- Given a string, eg: abc123ab12
  Find sum of integers divided by sum of no. of alphabets rounded off to nearest integer
  i.e. 1+2+3+1+2/5= 9/5 = 2(1.8 is rounded off to nearest integer as 2)
- Simple ad-hoc problem based on array operation.
- Given an array
  And given a no. N,
  Find all the numbers that can be formed from given array that is less than or equal to N
  Digits N be repeated.
  Eg. arr[]= 1, 2, 3, 4
  N=100
  possible no.s that can be formed from arr <=N are {1, 2, 3, 4, 11, 12, 13, 14, 21, 22, 23, 24….44}
- Name a Hibernate issue and describe how to fix it.
- How Spring prepare context? How we can add some custom logic at the very beginning of loading beans?
- Basic Oops Concepts and Questions related to Data Structures.
- Difference Between Array List & Linked List?
- The first coding question was to count the no of islands in a 2D matrix.
- Question on Mathematics Non-negative number.
- Related to the Collection framework.
- What is dynamic method dispatch?
- Why java does not have multiple inheritance.
- Tell me about yourself.
- Oops concepts inheritance, polymorphism, Abstraction.
- Difference between abstract class and interface.

- About wrapper classes.
- Difference between final and finally
- Questions related to projects mentioned in resume.
- What is the use of synchronized keyword in java?
- Java-based questions like garbage collections, threads, virtual-final-static methods, inheritance, etc.
- Basic questions from pointers, call by value and call by reference- difference and where to use, etc.
- Are you ready to work for 16 hours a day?
- Why do we even need interfaces if every method's body we declare in a different class?
- Array List vs Vector
- Multiple Inheritence
- Have you ever used Stack and queue.?where? why?
- HashMap vs HashTable.
- Difference between BST and Binary Tree.
- What are B+ trees or B tress and show me with the help of a program how B+ tree can be used in DB tables.
- Object vs Class
- Is Java pass by value or reference? Prove it.
- OOPL vs Procedural Language
- What are the DS you have used?
- What DS dbms tables use? Show me how with a program!
- Can you use BST or Binary Tree in DB tables? If yes show me with a program or if no then why?
- Do you know Red Black Trees?
- I was asked like in different kind of situations what would I do?
- Family members? My city, etc.
- Are you ready to go away from home and work efficiently for EPAM?
- Why EPAM?
- What was your goal since childhood?
- Your idol / hero? (Don't tell Salman Khan or Leonardo DiCaprio kind of idols).
- What project you have done?
- What are u planning in the next 5 years?
- What are/were the challenges you will face/faced in your group for the project?(As I told I was the team leader)

- What will you do if you face stress?
- Do you read news? What is the latest news you have read?
- Write a code to explain abstraction.
- Is string mutable in Java?
- Given an Array of digits 1-9, 0 excluding and a number N
  Find how many numbers can be formed such that it is less than or equals to N. Digits can be repeated.
  Eg: Arr - {1,4,9}
      N - 10
  Ans - 3 since (1, 4, 9)

  Arr - {1,3,4,5}
  N - 100
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