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Coding interviews consist mainly of questions based on data structure and algorithm, as well as some of the logical questions such as, how do they exchange two wholes without using a temporary variable? These questions not only will help you develop your problem solving skills, but also improve your knowledge of the array data structure. It is not guaranteed that you will be asked these questions, but they will give you enough of an idea of the types of questions you can expect in a real programming job interview. I am Java progrmr, blogger at and Coding interviews consist mainly of questions based on data structure and algorithm, as well as some of the logical questions such as, how do they exchange two wholes without using a temporary variable? There are a lot of computer graduates and programmers that apply for programming, coding and software development roles to startups like Uber and Netflx. Big organizations like Amazon, Microsoft and Google; and services-based companies like Infosys or Luxsoft, but many of them have no idea what kind of question programming interview to expect when you are applying for a job with these companies. In this article, I will share some questions of programming interviews often posed by different interviews for programmers at different levels of experience, from people who have just graduated from college to programmers with one to two years of experience. I think it's useful to split interview encoding questions into different subject areas. The subject areas I have seen most often in interviews are arrays, linked list, string, binary tree, as well as questions from algorithms (eg string algorithm, selection algorithms like rapid or radix, and other various), and this is what you will find in this article. It is not guaranteed that you will be asked for these encoding or structure of data and algorithmic questions, but they will give you enough of an idea of the types of questions you can expect in a real programming job interview. Once you have faced these questions, you should feel confident enough to participate in any phone interview or face to face. Btw, there is no point in trying these questions if you do not have sufficient knowledge of the structure of the essential data and algorithms or have not touched them for centuries. In this case, you should take a good course like Algoritmi and Data Structures Part 1 and 2 From Robert Horvick to update your DS skills and algorithms. Check out this relative video on the programming below. 50 Common Algorithms Interviews Questions Without further delay, here is my list of some of the most frequently asked questions of encoding interview from programming interviews:1. Array Coding and Data Structures Interview Questions Unis the most basic data structure, which stores items in a contiguous memory location. It is also one of the dear topics of interviewers and you hear a lot of The main advantage of a data structure of an array is that it offers a quick search or (1) if you know the index, but add and remove an element from an array is slow because you can't change the size of the €™ Array Once you are created. To create a shorter or longer array, you need to create a new array and copy all elements from old to new. The key to solve array-based questions is to have a good knowledge of the Array data structure as well as basic programming manufacturers such as loops, resorts and fundamental operators. Here are some of the most common questions for array-based encoding interviews: how to find the missing number in an entire array given by 1 to 100? (Solution) How to find the duplicate number on a whole array given? (Solution) How to find the largest and most smaller number in an unordered whole array? (Solution) How to find all the pairs of a whole array whose sum is the same as a given number? (Solution) How to find duplicate numbers in an array if it contains more duplicates? (Solution) How are duplicates removed from a given Array in Java? (Solution) How is an entire array using the QuickSort algorithm? (Solution) How do you remove duplicates from an array in Java? (Solution) How do you reverse an array in Java? (Solution) As if you need more advanced array-based questions then you can also see The Coding Interview Bootcamp: Algorithms + Data Structures, a Bootcamp style course on algorithms, especially designed for the preparation of the interview to get a job on giants Technicians like Google, Microsoft, Apple, Facebook etc. And, if you feel that 10 questions are not sufficient and you need more practice, then you can also check this list of 30 Matrix Questions. Questions about the programming interview of lists Connecting a linked list is another common data structure that completes the data structure of the array. Similar to array, ÁÁÁ also a linear data structure and stores elements in a linear way. However, unlike the array, it does not store them in contiguous places, but they are instead scattered everywhere in the memory, which € Á ÁÁÁ connected to each other via nodes. One list linked ÁÁÁ only a list of nodes where each node contains the stored value and the address of the next thanks to this structure. Áf i easy to add e Remove items from a linked list, as it is sufficient to change the connection instead of creating the array, but the search is difficult and often requires or (n) time to find an item in the linked list Individually. This article provides more information on the difference between an array and the data structures of the Linked lists, a list, which allows you to cross in one direction (towards or backwards); a double-linked list, which allows you to cross in both directions (forwards and backwards); and finally, a circular linked list, which forms a circle. In order to solve questions based on linked lists, a good knowledge of recursion is important, because a linked list is a recursive data structure. If you take a node from a linked list, the remaining data structure is still a linked list, and because of this, many linked list problems have simpler recursive solutions than iterative ones. Here are some of the most common and popular linked list interview questions and their solutions: How do you find the core element of a uniquely linked list in a pass? (solution) How do I check if a certain linked list contains a loop? How do I find the starting node of the loop? (Solution) How do I invert a linked list? (Solution) How do I invert an individually linked list without recursion? (Solution) How do I remove duplicate nodes in an unselected linked list? (solution) How do I find the length of an individually linked list? (solution) How do I find the third node from the end in an individually linked list? (Solution) How do I find the sum of two linked lists using Stack? (Solution) These questions will help you develop your problem solving skills and improve your knowledge of the data structure of the linked list. If you are having trouble solving these linked list coding questions then I suggest updates your data structure and skill algorithms by going through Data Structures and Algorithms: Deep Dive Using the Java Course. You can also check this list of 30 linked list interview questions for more practical questions.3. Along with array and linked list data structures, a string is another popular topic on programming job interviews. I've never participated in a coding interview where no string-based questions were asked. A good thing about string is that if you know the array, you can easily solve string-based questions because strings are nothing more than an array of characters. So all the techniques you learn solving array-based encoding questions can be used to solve string programming questions as well. Here is my list of string encoding questions often asked by programming job interviews: How do I print duplicate characters from a string? (solution) How do you check if two strings are anagrams of each other? (solution) How do I print the first non-repeated character from a string? (solution) How can a given string be reversed using recursion? (solution) How to check if a string contains only (solution)How are the duplicate characters found in a string? (solution)How do you count a number of vowels and consonants on a string date? (solution) How do you count the occurrence of a given character in a string? (solution)How do you find all the permutations of a string? (solution)How do you reverse words in a given sentence without using any library method? library?checks if two strings are a rotation of each other? (solution) How do I check if a given string is a palindrome? (Solution) These questions help to improve your knowledge of the string as a data structure. If you can solve all these string questions without any help, then you are in good shape. For more advanced questions, I suggest you solve the problems given in Steven Skiena's Algorithm Design Manual, a book with the most difficult algorithm questions. If you need more practice, here's another list of 20 string coding questions.4. Interview Questions about the Binary Tree So far, we've only looked at the structure of the linear data, but all the information in the real world cannot be represented in a linear way, and that's where the data structure of the trees helps. The tree data structure is a data structure that allows you to store data in a hierarchical way. Depending on how you store the data, there are different types of trees, such as a binary tree, where each node has, at most, two children's nodes, a Together with its close cousin binary tree search, it is also one of the most popular tree data structures. Therefore, you will find a lot of questions based on them, such as how to traverse them, count knots, find the depth, and check if they are balanced or not. A key point to solving questions about binary shafts is a strong knowledge of the theory, for example, what is the size or depth of the binary shaft, what is a leaf, and what is a knot, as well as an understanding of popular traversal algorithms, for example pre-, post-, and in-order traversal. Here is a list of popular binary coding questions based on software engineer trees or developer job interviews: How is a binary search tree implemented? (Solution) How do I perform the preorder crossbar in a given binary shaft? (solution) How do you cross a certain binary shaft in pre-order without recursion? (Solution) How do you make an orderly crossbar in a given track shaft? (Solution) How do I print all the nodes of a given binary tree using inorder traversal without recursion? (solution) How do you implement a traverse postorder algorithm? (solution) How do you cross a rail shaft in a post-order traverse without recursion? (solution) What are all the leaves of a printed binary search tree like? (solution) How do you count a number of leaf nodes in a given binary tree? (solution) How to perform a binary search in a given array? (Solution) If you feel that your understanding of the tree binary code is insufficient and you cannot solve these questions by yourself, I recommend you to come back and choose a good data structure and algorithm course as from 0 to 1: Data Structures & Algorithms in Java. If you need some recommendations, here is the list of useful books and algorithm courses database to start with.5. Various Coding Interviews Questions In addition to questions based on data structure, most programming work interviews also ask questions of algorithm, design, bit manipulation and general logic, which I will describe in this section. It is that you practice these concepts because sometimes they become difficult to solve in the real interview. After practicing them before it only makes you know with them, but you also give you more confident in explaining the solution to the interviewer. How is a bubble algorithm implemented? (Solution) How is a rapid iterative algorithm implemented? (Solution) How does an insertion algorithm implement? (Solution) How does a bucket algorithm implement? (Solution) How does a counting algorithm implement? (Solution) How is a radix type algorithm implemented? (Solution) How do you exchange two numbers without using the third variable? (Solution) How do you verify if two rectangles overlap between them? (Solution) How do you design a vending machine? (Solution) If you need more such encoding questions you can take help from books like cracking the code interview, from Gayle LaAakmann McDowell presenting 189+ applications and programming solutions. A good book to prepare for programming interviews in a short time. By the way, more questions resolves in practice, the better your preparation will be. So if you think that 50 is not enough and you need more, then check these additional 50 programming applications for telephone interviews and these books and courses for more in-depth preparation. Now you are ready for the interview Coding these are some of the most common questions outside the structure of data and algorithms that help you do really well in your interview. I also shared a lot of these questions about my blog, so if you are really interested, you can always go there and look for them. These common coding questions, data structure and algorithms are the ones you need to know to successfully interview any company, large or small, for any level of programming work. If you are looking for a programming or software development job in 2018, you can start your preparation with this list of coding applications. This list provides good topics to prepare and also helps to evaluate your preparation to discover your areas of strength and weakness. A good knowledge of data structure and algorithms is important for success in encouraging interviews and this is where you should focus most of your attention. More information Data structures and algorithms: Deep Dive using Java 10 books to prepare technical programming / coding Job interviews10 Algorithm Books Each programmer should read Top 5 data structure and algorithm Books for Java Developersda 0 to 1: data structures & algorithms in Java structure Data and analysis of algorithms á €™Work interview Notes of closure thanks. You did it at the end of the article ... good luck with your interview It will certainly not be easy, but following this roadmap and guide, you are a closer step to become a Devops engineer. If you like this article, then please share with your friends and colleagues, and don't forget to follow Javinpaul up on A € à, ~ "If you need some free resources, you can check this list of free data structures and algorithm courses to start preparation. Join Hacker news