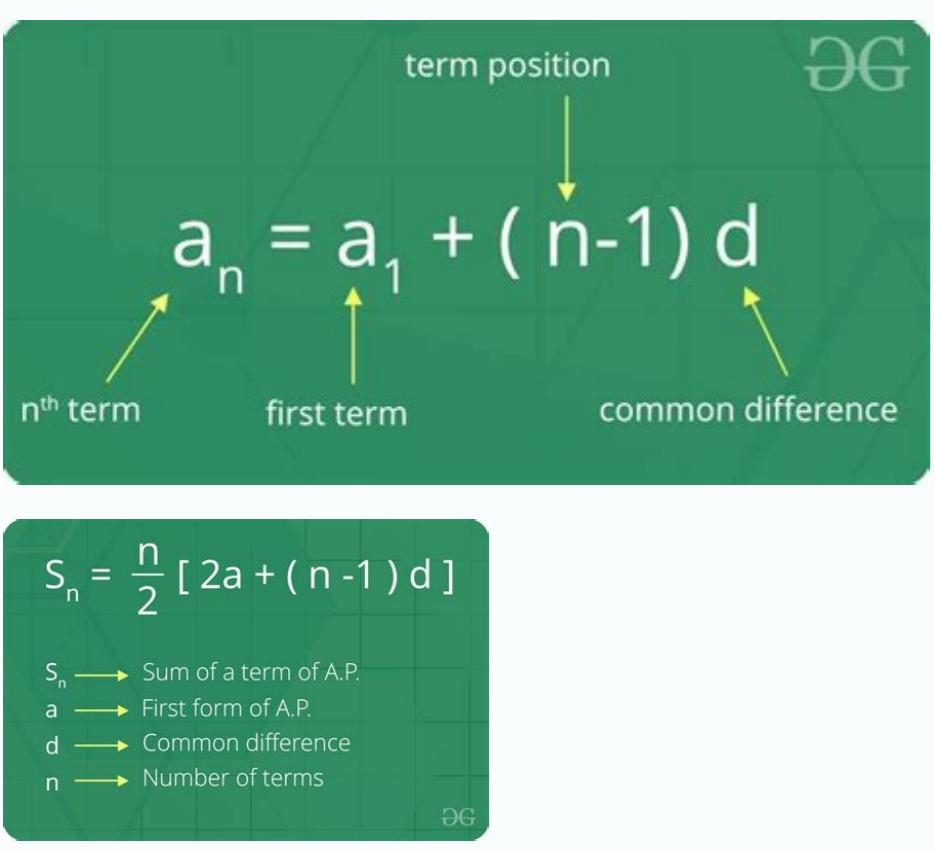


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Data Structure is a way of collecting and organising data in such a way that we can perform operations on these data in an effective way. Data Structures is about rendering data elements in terms of some relationship, for better organization and storage. For example, we have some data which has, player's name "Virat" and age 26. Here "Virat" is of String data type and 26 is of integer data type. We can organize this data as a record like Player record, which will have both player's name and age in it. Now we can collect and store player's records in a file or database as a data structure. For example: "Dhoni" 30, "Gambhir" 31, "Sehwag" 33 If you are aware of Object Oriented programming concepts, then a class also does the same thing, it collects different type of data under one single entity. The only difference being, data structures provides for techniques to access and manipulate data efficiently. In simple language, Data Structures are structures programmed to store ordered data, so that various operations can be performed on it easily. It represents the knowledge of data to be organized in memory. It should be designed and implemented in such a way that it reduces the complexity and increases the efficiency. Basic types of Data Structures As we have discussed above, anything that can store data can be called as a data structure, hence Integer, Float, Boolean, Char etc, all are data structures. They are known as Primitive Data Structures. Then we also have some complex Data Structures, which are used to store large and connected data. Some example of Abstract Data Structure are : All these data structures allow us to perform different operations on data. We select these data structures based on which type of operation is required. We will look into these data structures in more details in our later lessons. The data structures can also be classified on the basis of the following characteristics: Characteristic Description LinearIn Linear data structures, the data items are arranged in a linear sequence. Example: Array Non-LinearIn Non-Linear data structures, the data items are not in sequence. Example: Tree, Graph HomogeneousIn homogeneous data structures, all the elements are of same type. Example: Array Non-HomogeneousIn Non-Homogeneous data structure, the elements may or may not be of the same type. Example: Structures StaticStatic data structures are those whose sizes and structures associated memory locations are fixed, at compile time. Example: Array DynamicDynamic structures are those which expands or shrinks depending upon the program need and its execution. Also, their associated memory locations changes. Example: Linked List created using pointers What is an Algorithm ? An algorithm is a finite set of instructions or logic, written in order, to accomplish a certain predefined task. Algorithm is not the complete code or program, it is just the core logic(solution) of a problem, which can be expressed either as an informal high level description as pseudocode or using a flowchart. Every Algorithm must satisfy the following properties: Input- There should be 0 or more inputs supplied externally to the algorithm. Output- There should be atleast 1 output obtained. Definiteness- Every step of the algorithm should be clear and well defined. Finiteness- The algorithm should have finite number of steps. Correctness- Every step of the algorithm must generate a correct output. An algorithm is said to be efficient and fast, if it takes less time to execute and consumes less memory space. The performance of an algorithm is measured on the basis of following properties : Time Complexity Space Complexity Space Complexity Its the amount of memory space required by the algorithm, during the course of its execution. Space complexity must be taken seriously for multi-user systems and in situations where limited memory is available. An algorithm generally requires space for following components : Instruction Space: Its the space required to store the executable version of the program. This space is fixed, but varies depending upon the number of lines of code in the program. Data Space: Its the space required to store all the constants and variables(including temporary variables) value. Environment Space: Its the space required to store the environment information needed to resume the suspended function. To learn about Space Complexity in detail, jump to the Space Complexity tutorial. Time Complexity Time Complexity is a way to represent the amount of time required by the program to run till its completion. It's generally a good practice to try to keep the time required minimum, so that our algorithm completes it's execution in the minimum time possible. We will study about Time Complexity in details in later sections. NOTE: Before going deep into data structure, you should have a good knowledge of programming either in C or in C++ or Java or Python etc. In this article, we will learn how to sort table data in HTML using JavaScript. We can sort table data either in ascending order or descending order. In the beginning, we will understand the basic meaning of JavaScript and the element. After that, we will learn to sort table data with the help of various examples. What do you mean by element? JavaScript is an object-based, high-level language as it can access various HTML objects on the web page. What do you mean by element? In HTML, tables are created by the element. In the element, rows are inserted using the tag and tag is used to specify the contents of the cell. The tag should be specified in pairs for each cell of the row. Let's take some examples of how to sort Table Data Using JavaScript. Example 1: Sort table data in HTML using JavaScript body { background: -webkit-gradient(linear, left top, left bottom, from(lightgrey), to(transparent)), -webkit-gradient(linear, left top, right top, from(skyblue), to(transparent)), -webkit-gradient(linear, right top, left top, from(coral), to(transparent)); background: linear-gradient(lighgrey, transparent), linear-gradient(90deg, skyblue, transparent), linear-gradient(45deg, coral, transparent); background-blend-mode: screen; border-radius: 5px; -webkit-box-shadow: 0 1px 2px rgba(0, 0, 0, 0.3); box-shadow: 0 1px 2px rgba(0, 0, 0, 0.3); margin-top: 25px; margin-left: 25px; margin-bottom: 50px; min-width: 768px; padding-bottom: 20px; padding-top: 10px; display: inline-block; text-align: center; } h1 { font-size: 32px; margin-bottom: 50px; } h1.sixth { position: relative; } h1.sixth:before { content: '1'; display: inline-block; position: absolute; top: 1px; font-size: 1.25em; color: tomato; transition: all 0.5s ease; } h1.sixth:after { content: '2'; display: inline-block; position: absolute; top: 1px; font-size: 1.25em; color: tomato; transition: all 0.5s ease; } h1.sixth:hover:before { content: '2'; display: inline-block; position: absolute; top: 1px; font-size: 1.25em; color: tomato; transition: all 0.5s ease; } h1.sixth:hover:after { content: '1'; display: inline-block; position: absolute; top: 1px; font-size: 1.25em; color: tomato; transition: all 0.5s ease; } h3.second { font-weight: 800; font-size: 30px; } * { color: #7F7F7F; font-family: Arial, sans-serif; font-size: 12px; font-weight: normal; } h3.second span { position: relative; display: inline-block; padding: 5px 10px; border-radius: 10px; border-bottom: 2px solid mediumseagreen; } h3.second span:after { content: ''; position: absolute; bottom: calc(-100% - 1px); left: -10px; width: 100%; height: 100%; border-radius: 10px; border-top: 1px solid mediumseagreen; font-weight: bold; } #ceo { border-collapse: collapse; width: 100%; border: 1px solid #ddd; font-size: 18px; } #ceo th { padding: 10px 30px; text-align: left; } #ceo th { background: #333; color: white; font-size: 30px; } #ceo th.asc:after { display: inline; content: '?'; } #ceo th.desc:after { display: inline; content: '?'; } #ceo td { background: #ccc; } Example

Sort table data in HTML using JavaScript

Name Gender Age James V. Foreman Male 30 Marissa Mayer Female 39 Larry Page Male 41 Mark Zuckerberg Male 30 Cameron K. Barnett Male 30 Berglunds snabbkop Male 30 Mortgage loan officer Male 30 Berglunds snabbkop Male 30

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