

Array as An Abstract Data Type in Data Structures(With Notes)

CodeWithHarry

Abstract Data Type is a new data type upon which we have defined our set of operations and values. We can directly link it with object-oriented programming. So what have I done ? I've made a OneNote Notebook. And here, by the name of 'Algorithms. 1' An integer is not an abstract data type, it is a primitive data type. Like an integer, I can also make my own data type , Assume that I want to make a data type called 'my array' The C language is a special type of array. It must have a total size. total_size. And after that, it must have an address , Base address. Base address is the pointer. This My Array ADT that's being made The representation of the set of values This is it. I'll do it like this. And I'll write here + , meaning the set. of operations. Here I can define some operations. What can those operations be ? Those operations can be anything. It's my choice ; whatever I choose to keep. So we can define a lot of these types of operations And we can make our custom data types. So I have made a My Array abstract data type.

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Page 1 of 1