**Difference between a Vector and an Array. Advantages and disadvantages of both**

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| What is the difference between a Vector and an Array? Discuss the advantages and disadvantages of both?  **Differences between a Vector and an Array**  - A vector is a dynamic array, whose size can be increased, where as an array size cannot be changed. - Reserve space can be given for vector, whereas for arrays cannot. - A vector is a class where as an array is not. - Vectors can store any type of objects, where as an array can store only homogeneous values.  **Advantages of Arrays:** - Arrays supports efficient random access to the members. - It is easy to sort an array. - They are more appropriate for storing fixed number of elements  **Disadvantages of Arrays:** - Elements cannot be deleted - Dynamic creation of arrays is not possible - Multiple data types cannot be stored  **Advantages of Vector:** - Size of the vector can be changed - Multiple objects can be stored - Elements can be deleted from a vector  **Disadvantages of Vector:** - A vector is an object, memory consumption is more.  What is the difference between a Vector and an Array. Discuss the advantages and disadvantages of both?  **Differences between Vector and Array** - Vector is a grow able and shrinkable whereas Array is not. - Vector implements the List interface whereas array is a primitive data type - Vector is synchronized whereas array is not. - The size of the array is established when the array is created. As the Vector is grow able, the size changes when it grows.  **Advantages and Disadvantages of Vector and Array:**  - Arrays provide efficient access to any element and cannot modify or increase the size of the array. - Vector is efficient in insertion, deletion and to increase the size. - Arrays size is fixed whereas Vector size can increase. - Elements in the array cannot be deleted, where as a Vector can.  **Reference :** [**http://www.careerride.com/Java-QA-vector-vs-array.aspx**](http://www.careerride.com/Java-QA-vector-vs-array.aspx) |