**\*\* Vector \*\***

**Vector**

1. It is internal working based on Array List.
2. It is synchronized.
3. It is thread safe.
4. It implements list interface, Clone-able serializable and random access.
5. It is grow-able in nature.
6. It allows random access.
7. Insertion and deletion operation are complex.
8. In Array List insertion order is preserved.
9. Internal data structure is Array.
10. It allows to Store duplicate data.
11. Null value can also be inserted.
12. We can store homogeneous type of data.
13. **Vector have Four Constructor.**
14. **Vector()**
15. **Vector(int Capacity)**
16. **Vector(int Capacity, int increase capacity)**
17. **Vector(Collection)**

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| **No**. | **Vector** | **Array List** |
|  | It is synchronized. | It is not synchronized . |
|  | It is thread safe | It is not thread safe |
|  | Its size increases by  Current capa \* 2. | Its size increases by  (Current capa \* 3) / 2. |
|  | Its performance is slow  Because it is synchronized. | Its performance is fast Because  It is not synchronized. |
|  | Vector contain Capacity() method. | Array List does not contain Capacity() method. |
|  | It have four Constructor. | It have Three constructor. |
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