

Top Tricky interview Questions on Collection Framework

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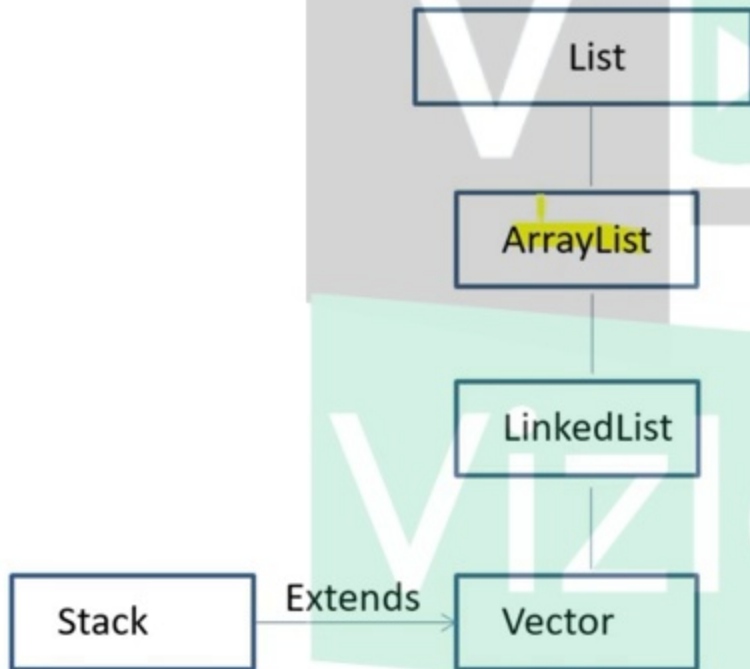
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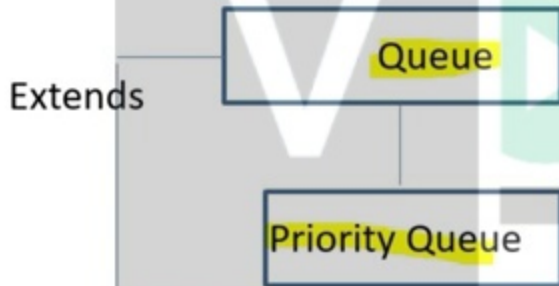
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List Interface



- Vector is synchronized.
- maintains the insertion order
- Its Thread safe
- Vector increases its size by doubling the array size
- It's a legacy class

Queue Interface



DeQue

ArrayDeQue

- way to apply **resizable-array** in addition to the implementation of the Deque interface
- no capacity restrictions

Q) Difference between fail-fast and fail-safe Iterators

- Fail-fast Iterators throws `ConcurrentModificationException` when one Thread is iterating over collection object and other thread structurally modify Collection either by adding, removing or modifying objects on underlying collection. They are called fail-fast because they try to immediately throw Exception when they encounter failure.
- fail-safe iterator doesn't throw any Exception if Collection is modified structurally while one thread is Iterating over it because they work on clone of Collection instead of original collection and that's why they are called as fail-safe iterator.

Q) Internal Working of hash map

- HashMap in Java works on hashing principle where hash functions are used to link key and value in HashMap, Objects (**Map.Entry** -> contains both key and value object) are stored by calling **put(key, value)** method of HashMap and retrieved by calling **get(key)** method.
- When we call put method, **hashCode()** method of the key object is called which calculates an index of the bucket location where we can store the value object.
- To retrieve , you call the **get()** method and again pass the key object, which lands u up at same index or bucket and u retrieve the value object.



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