1. What is singleton class? How to write? Factory and observable
2. What collection do you know?
3. List? What is list? What list do you know? How does list implement?
4. Set? What is set? How does set implement? What kind of set do you know? (hashset, treeset)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Order | Sorted | Insert | Delete | Search | Thread safe |
| ArrayList | Yes | No | O(1) | O(1) | O(1) | No |
| LinkedList | Yes | No | O(1) | O(n) | O(n) | No |
| HashSet | No | No | O(1) | O(1) | O(1) | No |
| TreeSet | No | Yes | Lgn | Lgn | Lgn | No |

1. Comparable and ComparaTo
2. Map? What is map? What map do you know? HashMap implements. HashMap vs HashTable.
3. Enumeration and iterator different? ConcurrenctModificationException fail-fast
4. Serializable External transit

Clone copy shallow copy deep copy,

object class, hashCode, equals, toString