|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Ordering | Random Access | Key-Value Pairs | Allows Duplicates | Allows Null Values | Thread Safe | Blocking Operations |
| ArrayList | Insertion | By index | No | Yes | Yes | No | No |
| LinkedList | Insertion | By index | No | Yes | Yes | No | No |
| Vector | Insertion | By index | No | Yes | Yes | Yes | No |
| HashSet | No | No | No | No | Yes | No | No |
| LinkedHashSet | Insertion | No | No | No | Yes | No | No |
| TreeSet | Yes | No | No | No | No | No | No |
| Hashtable | No | No | Yes | No | No | Yes | No |
| HashMap | No | No | Yes | No | Yes | No | No |
| LinkedHashMap | Insertion | No | Yes | No | Yes | No | No |
| TreeMap | Yes | No | Yes | No | No | No | No |