##### **Задание 1. Классы коллекций**

Изучите классы реализации коллекций и заполните следующую таблицу

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Ordering  \* | Random Access  \*\* | Key-Value Pairs | Allows Duplicates | Allows Null Values | Thread Safe | Blocking Operations |
| ArrayList | Yes | Yes | No | Yes | Yes | No | No |
| LinkedList | Yes | No | No | Yes | Yes | No | No |
| Vector | Yes | Yes | No | Yes | Yes | Yes | No |
| Stack | Yes | No | No | Yes | Yes | No | No |
| HashSet | No | Yes | No | No | Yes | No | No |
| LinkedHashSet | Yes | Yes | No | No | Yes | No | No |
| TreeSet | Yes | Yes | No | No | Yes | No | No |
| TreeMap | Yes | Yes | Yes | No | Yes | No | No |
| HashMap | No | Yes | Yes | No | Yes | No | No |
| LinkedHashMap | Yes | Yes | Yes | No | Yes | No | No |
| PriorityQueue | Yes | No | No | Yes | No | No | No |
| EnumSet | Yes | No | No | No | No | No | No |
| CopyOnWrite  ArraySet | Yes | Yes | No | No | Yes | Yes | No |
| CopyOnWrite  ArrayList | Yes | Yes | No | Yes | Yes | Yes | No |
| EnumMap | Yes | Yes | Yes | No | No | No | No |
| WeakHashMap | No | Yes | Yes | No | Yes | No | No |
| IdentityHashMap | No | Yes | Yes | No | Yes | No | No |
| ConcurrentHash  Map | No | Yes | Yes | No | No | Yes | No |
| LinkedBlocking  Queue | Yes | No | No | Yes | No | Yes | Yes |
| ArrayBlocking  Queue | Yes | No | No | Yes | No | Yes | Yes |
| PriorityBlocking  Queue | Yes | No | No | Yes | No | Yes | Yes |
| DelayQueue | Yes | No | No | Yes | No | Yes | Yes |
| SynchronousQueue | Yes | No | No | Yes | No | Yes | Yes |
| LinkedTransfer  Queue | Yes | No | No | Yes | No | Yes | Yes |

\* In sense of insertion or sort ordering.

\*\*In sense what we can access to an every element by ID or Key(contains) for a time O(1).