March   Marc		Ordering	Random Access	Key-Value Pairs	Allows Duplicates	Allows Null Values	Thread Safe	Blocking Operations	Upper Bounds	Usage Scenarios
YES   YES   YES   YES   NO   YES							Wost Commo	only Known Co	liections	* Default choice of List implementation
Manufact   Mo	ArrayList	YES	YES	NO	YES	YES	NO	NO	NO	* To store a bunch of things
Vest	HashMap	NO	YES	YES	NO	YES	NO	NO	NO	* Default choice of Map implementation
March   Marc	Vector	YES	YES	NO	YES	YES	YES	NO	NO	* Historical implementation of List
No.   YES   NO   NO   YES   NO   NO   NO   NO   NO   NO   NO   N	Hashtable	NO	YES	YES	NO	NO	YES	NO	NO	* Similar to HashMap * Do not allow null values or keys
No.							Most Talke	ed About Colle	ctions	
Product   VES	HashSet	NO	YES	NO	NO	YES	NO	NO	NO	* A very nice alternative for ArrayList if ** Do not want repetitions
Interest List Active Comment and a comment of the c	TreeSet	YES	YES	NO	NO	NO	NO	NO	NO	* To store bunch of things in sorted order * A very nice alternative for ArrayList if **Do not want repetitions
	LinkedList	YES	NO	NO	YES	YES	NO	NO	NO	* Faster adding and deleting of elements * Slightly more memory than ArrayList * Add/Remove elements from both ends of the queue * Best alternative in case of huge lists which are more write intensive
Thread safe Collections  Thread Safe Collectio	ArrayDeque	YES	YES	NO	YES	NO	NO	NO	NO	* Faster searching and retrieval of elements * Add/Remove elements from both ends of the queue * Best alternative in case of huge lists which are more read intensive
No	Stack									* Last-In-First-Out implementation
Vest	TreeMap	YES	YES	YES	NO	NO				* A very nice alternative for HashMap if sorted keys are important
VES VES NO VES VES NO VES VES NO NO VES VES NO NO VES NO NO VES NO NO VES VES NO NO VE	WeakHashMap	NO	YES	YES	NO	YES				garbage collection * Usually used for advanced caching techniques to store huge data and
Properties  NO YES NO NO YES YES YES NO NO NO YES NO NO YES NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO YES YES YES NO NO NO YES NO NO NO YES NO NO YES YES YES NO NO YES YES YES NO NO NO YES NO NO YES NO NO YES YES NO NO YES YES NO NO YES NO NO YES NO NO NO YES NO NO YES YES YES NO NO YES NO NO NO YES NO NO YES YES YES NO NO YES NO NO NO YES NO NO YES NO NO YES NO NO YES YES YES NO NO YES NO NO NO YES NO	Arrays	YES	YES	NO	YES	YES	NO	NO	YES	** Searching ** Sorting
Thread Safe Collections   Thread Safe Collections	Properties	NO	YES	YES	NO	NO	YES	NO	NO	* Properties are exactly same as the Hashtable * Keys and Values are String * Can be loaded from a input stream
Page							Thread	Safe Collection	ons	Osually used to store application properties and configurations
NO   YES   YES   NO   NO   YES   YES   YES   YES   NO   NO   YES   YES   YES   YES   YES   YES   YES   NO   NO   YES   Y	CopyOnWriteArrayList	YES	YES	NO	YES	YES	YES	NO	NO	* Best use for ** Small lists which are read intensive
ConcurrentSkipListMap  VES VES VES NO NO NO VES NO NO PES NO NO PES NO NO PES NO NO PES NO PES Liber for Pestus for Pestu	ConcurrentHashMap	NO	YES	YES	NO	NO	YES	NO	NO	* Best use for ** requires thread-safety
Peacutive No.   Peacutive Productive Concurrent SkipListSet   YES   NO   NO   NO   YES   YES	ConcurrentSkipListMap	YES	YES	YES	NO	NO	YES	NO	NO	* A thread safe variant of TreeMap * Best use for
Pest use for   Pest use   Pest use for   Pest use   Pest	ConcurrentSkipListSet	YES	NO	NO	NO	NO	YES	NO	NO	* Best use for ** Do not want repetitions ** Sorted order
SoncurrentLinkedQueue   YES   NO   NO   YES   NO   YES   NO   YES   NO   YES   Y	CopyOnWriteArraySet	YES	YES	NO	NO	YES	YES	NO	NO	* Best use for ** Small lists which are read intensive ** requires thread-safety
Seed to see for   Seed to se	ConcurrentLinkedQueue	YES	NO	NO	YES	NO	YES	NO	NO	* Best use for ** Small lists ** No random access
NO NO YES NO YES YES YES YES Sees to Producer - Consumer type of scenarios with "Lower capacity bound "Predictable capacity "Has a bounded buffer. Space would be allocated during object creation Page 1. The predictable capacity has a bounded buffer. Space would be allocated during object creation Page 1. The predictable capacity has a bounded buffer. Space would be allocated during object creation Page 2. The predictable capacity has a bounded buffer. Space would be allocated during object creation Page 2. The predictable capacity has a bounded buffer. Space would be allocated during object creation Page 2. The page 3. The page 2. The	ConcurrentLinkedDeque	YES	NO	NO	YES	NO	YES	NO	NO	* Best use for  ** Small lists  ** No random access  ** Insertions, retrieval on both sides of the queue
YES   NO   NO   YES   NO   YES   Y							Block	king Collection	s	
Sest use for Producer - Consumer type of scenarios with	ArrayBlockingQueue	YES	NO	NO	YES	NO	YES	YES	YES	** Lower capacity bound ** Predictable capacity
Can be used in situations where the producers should wait for consumer to receive elements. e.g. Message Passing   Can be used in situations where the producer should wait for consumer to receive elements. e.g. Message Passing   Can be used in situations where the producer should wait for consumer to receive elements. e.g. Message Passing   Can be used in situations where the producer should wait for consumer to receive elements. e.g. Message Passing   Can be used in situations where the producers should wait for consumer to receive elements. e.g. Message Passing   Can be used in situations where the producers should wait for consumer to receive elements. e.g. Message Passing   Can be used in situations where the producers should wait for consumer threads with the consumer thread or so that the producer and consumer threads will have to wait for a handoff to occur.   SynchronousQueue	LinkedBlockingQueue	YES	NO	NO	YES	NO	YES	YES	YES	* Best use for Producer - Consumer type of scenarios with ** Large capacity bound ** Unpredictable capacity
PriorityBlockingQueue  YES  NO  NO  YES  NO  YES  YES  YES  YES  YES  YES  YES  YE	LinkedTransferQueue	YES	NO	NO	YES	NO	YES	YES	YES	* Can be used in situations where the producers should wait for consumer
No   No   YES   No   No   YES   YES   YES   YES   *A Deque implementation of LinkedBlockingQueue **Can add elements at both head and tail **SunchronousQueue**	PriorityBlockingQueue	YES	NO	NO	YES	NO	YES	YES	NO	"* Best use for Producer - Consumer type of scenarios with  ** Large capacity bound  ** Unpredictable capacity
SynchronousQueue  YES  NO  NO  YES  NO  YES  YES  NO  NO  YES  NO  NO  YES  NO  NO  YES  NO  NO  YES  NO  NO  NO  YES  NO  NO  YES  NO  NO  NO  NO  YES  NO  NO  NO  YES  NO  NO  NO  NO  YES  NO  NO  NO  NO  NO  NO  YES  NO  NO  NO  NO  NO  NO  NO  NO  NO  N	LinkedBlockingDeque	YES	NO	NO	YES	NO	YES	YES	YES	* A Deque implementation of LinkedBlockingQueue
NO NO YES NO YES YES NO NO YES NO YES YES NO NO YES YES NO NO YES YES NO NO NO YES NO NO YES NO NO NO YES NO NO YES NO NO YES NO NO YES NO Y	SynchronousQueue	YES	NO	NO	YES	NO	YES	YES	NO	* Both producer and consumer threads will have to wait for a handoff to occur.  If there is no consumer waiting. The element is not added to the
	DelayQueue	YES	NO	NO	YES	NO	YES	YES	NO	* Similar to a normal LinkedBlockingQueue  * Elements are implementations of Delayd interface  * Consumer will be able to get the element only when it's delay has
							Source:	http://www.jar	neve.me/arti	