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| **ArrayList** | **Vector** |
| All methods are non-synchronized | All methods are synchronized |
| Performance is high | Performance is low |
| Multiple Threads are allowed as same time | Single Thread is allowed at same time |
| ArrayList is introduced in java 1.2 version | Vector class introduced in java 1.0 version |
| ArrayList is not legacy class | Vector is Legacy |

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| **ArrayList** | **LinkedList** |
| ArrayList is best choice for retrieval operation | LinkedList is best choice for insertion or deletion operation |
| Underlying data structure for ArrayList is growable array | Underlying data structure for LinkedList is double linked list |
| There is no new method present inside the ArrayList class, so always we have to use methods from Collection interface and List interface | LinkedList define the 6 new methods as well as we can use methods from Collection interface as well as list interface |

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| **LinkedList** | **Vector** |
| All methods are non synchronized | All methods are synchronized |
| Performance is high | Performance is low |
| Multiple Threads are allowed at same time | Single Thread is allowed at same time |
| Underlying data structure for LinkedList is double linked list | Underlying data structure for Vector is growable array |