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Differences between HashMap, Hashtable, LinkedHashMap and TreeMap in java



Interview Questions

In this post we'll be discussing Differences between HashMap, Hashtable, LinkedHashMap and TreeMap

Differences between <u>HashMap</u> vs **Hashtable** vs **LinkedHashMap** vs <u>TreeMap</u> >

	Property	HashMap	Hashtable	LinkedHashMap	TreeMap
1	Insertion order	HashMap does not maintains insertion order.	Hashtable does not maintains insertion order.	LinkedHashMap maintains insertion order.	TreeMap is sorted by natural order of keys.
2	Performance	HashMap is not synchronized, hence its operations are faster as compared to Hashtable.	Hashtable is synchronized, hence its operations are slower as compared HashMap. If we are working not working in multithreading environment jdk recommends us to use HashMap.	LinkedHashMap must be used only when we want to maintain insertion order. Time and space overhead is there because for maintaining order it internally uses Doubly Linked list.	TreeMap must be used only when we want sorting based on natural order. Otherwise sorting operations cost performance. (Comparator is called for sorting purpose)
3	Null keys and values	It allows to store one null key and many null values i.e. many keys can have null value.	It does not allow to store null key or null value. Any attempt to store null key or value throws runtimeException (NullPointerException).	It allows to store one null key and many null values i.e. any key can have null value.	It does not allow to store null key but allow many null values. Any attempt to store null key throws runtimeException (NullPointerException).

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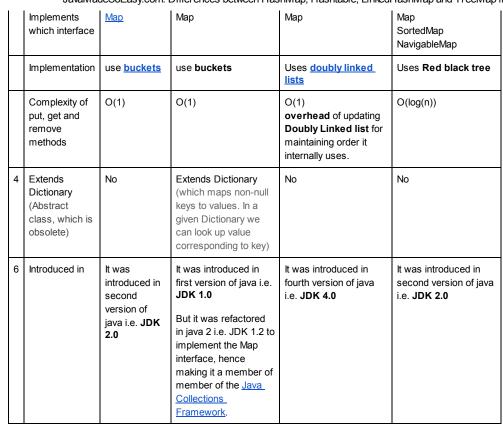
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Similarity between **HashMap** vs **Hashtable** vs **LinkedHashMap** vs **TreeMap** >

Property	HashMap and Hashtable
synchronization	All are not synchronized .
iterators are <u>fail-fast</u>	The iterators returned by the iterator() method of the collections returned by all Map's "collection view methods" are fail-fast > 1. map.keySet().iterator() 2. map.values().iterator()
	3. map.entrySet().iterator() all three iterators are fail-fast
	•

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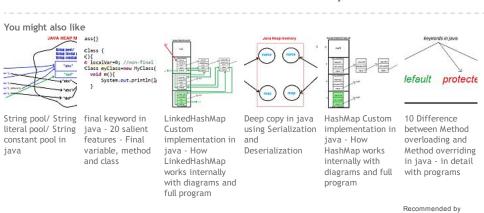
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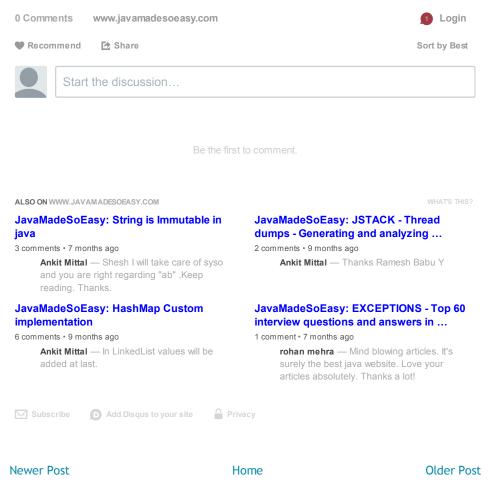
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