𝐉𝐚𝐯𝐚 𝐌𝐚𝐩 𝐈𝐦𝐩𝐥𝐞𝐦𝐞𝐧𝐭𝐚𝐭𝐢𝐨𝐧𝐬  
  
Beside widely used 𝐇𝐚𝐬𝐡𝐌𝐚𝐩, a Map implementation class, there are other 7 implementations available in Java as follows:  
- 𝐓𝐫𝐞𝐞𝐌𝐚𝐩 - it keeps the keys sorted and the key must implement Comparator interface, it is the only one with O(n log n) complexity for add, search and delete operations.  
- 𝐋𝐢𝐧𝐤𝐞𝐝𝐇𝐚𝐬𝐡𝐌𝐚𝐩 - it keeps the insertion order of the elements  
- 𝐄𝐧𝐮𝐦𝐌𝐚𝐩 - very fast implementation where keys must be an Enum  
- 𝐖𝐞𝐚𝐤𝐇𝐚𝐬𝐡𝐌𝐚𝐩 - stores only weak references to its keys  
- 𝐈𝐝𝐞𝐧𝐭𝐢𝐭𝐲𝐇𝐚𝐬𝐡𝐌𝐚𝐩 - only one implementation which doesn't call equals() method on its keys  
- 𝐂𝐨𝐧𝐜𝐮𝐫𝐫𝐞𝐧𝐭𝐇𝐚𝐬𝐡𝐌𝐚𝐩 - is a highly concurrent, high-performance implementation of a map  
- 𝐇𝐚𝐬𝐡𝐓𝐚𝐛𝐥𝐞 - don't use it anymore, switch to 𝐂𝐨𝐧𝐜𝐮𝐫𝐫𝐞𝐧𝐭𝐇𝐚𝐬𝐡𝐌𝐚𝐩 as fast as possible or to synchronized maps.  
  
𝐓𝐈𝐏: If you want to have these map implementations thread safe, then you can consider using 𝐂𝐨𝐥𝐥𝐞𝐜𝐭𝐢𝐨𝐧𝐬.𝐬𝐲𝐧𝐜𝐡𝐫𝐨𝐧𝐢𝐳𝐞𝐝\* methods, which wraps your map with another class and which it has all methods marked as synchronized and all method calls are delegated to your map.  
  
𝐓𝐈𝐏: When you are asked about the performance of a map, your answer always should be: 𝐢𝐭 𝐝𝐞𝐩𝐞𝐧𝐝𝐬 𝐨𝐧 𝐭𝐡𝐞 𝐢𝐦𝐩𝐥𝐞𝐦𝐞𝐧𝐭𝐚𝐭𝐢𝐨𝐧, and after you know the implementation, then you can properly respond.