**Methods in HashMap**

* **K** – The type of the keys in the map.
* **V** – The type of values mapped in the map.

| **METHOD** | **DESCRIPTION** |
| --- | --- |
| [clear()](https://www.geeksforgeeks.org/hashmap-clear-method-in-java/#:~:text=HashMap.,mappings%20from%20a%20specified%20HashMap.&text=Parameters%3A%20The%20method%20does%20not,does%20not%20return%20any%20value.) | Removes all of the mappings from this map. |
| [clone()](https://www.geeksforgeeks.org/hashmap-clone-method-in-java/) | Returns a shallow copy of this HashMap instance: the keys and values themselves are not cloned. |
| [compute(K key, BiFunction<? super K,](https://www.geeksforgeeks.org/hashmap-compute-method-in-java-with-examples/) [? super V,? extends V> remappingFunction)](https://www.geeksforgeeks.org/hashmap-compute-method-in-java-with-examples/) | Attempts to compute a mapping for the specified key and its current mapped value (or null if there is no current mapping). |
| [computeIfAbsent(K key, Function<?](https://www.geeksforgeeks.org/hashmap-computeifabsent-method-in-java-with-examples/) [super K,? extends V> mappingFunction)](https://www.geeksforgeeks.org/hashmap-computeifabsent-method-in-java-with-examples/) | If the specified key is not already associated with a value (or is mapped to null), attempts to compute its value using the given mapping function and enters it into this map unless null. |
| [computeIfPresent(K key, BiFunction<? super K,](https://www.geeksforgeeks.org/hashmap-computeifpresentkey-bifunction-method-in-java-with-examples/) [? super V,? extends V> remappingFunction)](https://www.geeksforgeeks.org/hashmap-computeifpresentkey-bifunction-method-in-java-with-examples/) | If the value for the specified key is present and non-null, attempts to compute a new mapping given the key and its current mapped value. |
| [containsKey(Object key)](https://www.geeksforgeeks.org/hashmap-containskey-method-in-java/) | Returns true if this map contains a mapping for the specified key. |
| [containsValue(Object value)](https://www.geeksforgeeks.org/hashmap-containsvalue-method-in-java/) | Returns true if this map maps one or more keys to the specified value. |
| [entrySet()](https://www.geeksforgeeks.org/hashmap-entryset-method-in-java/) | Returns a Set view of the mappings contained in this map. |
| [get(Object key)](https://www.geeksforgeeks.org/hashmap-get-method-in-java/) | Returns the value to which the specified key is mapped, or null if this map contains no mapping for the key. |
| [isEmpty()](https://www.geeksforgeeks.org/hashmap-isempty-method-in-java/) | Returns true if this map contains no key-value mappings. |
| [keySet()](https://www.geeksforgeeks.org/hashmap-keyset-method-in-java/#:~:text=util.,the%20key%20elements%20in%20them.) | Returns a Set view of the keys contained in this map. |
| [merge(K key, V value, BiFunction<? super V,](https://www.geeksforgeeks.org/hashmap-mergekey-value-bifunction-method-in-java-with-examples/#:~:text=The%20merge(Key%2C%20Value%2C,as%20bucket1%20and%20so%20on.) [? super V,? extends V> remappingFunction)](https://www.geeksforgeeks.org/hashmap-mergekey-value-bifunction-method-in-java-with-examples/#:~:text=The%20merge(Key%2C%20Value%2C,as%20bucket1%20and%20so%20on.) | If the specified key is not already associated with a value or is associated with null, associates it with the given non-null value. |
| [put(K key, V value)](https://www.geeksforgeeks.org/hashmap-put-method-in-java/) | Associates the specified value with the specified key in this map. |
| [putAll(Map<? extends K,? extends V> m)](https://www.geeksforgeeks.org/hashmap-putall-method-in-java/#:~:text=HashMap.,from%20one%20map%20into%20another.&text=Parameters%3A%20The%20method%20takes%20one,we%20want%20to%20copy%20from.) | Copies all of the mappings from the specified map to this map. |
| [remove(Object key)](https://www.geeksforgeeks.org/hashmap-remove-method-in-java/) | Removes the mapping for the specified key from this map if present. |
| [size()](https://www.geeksforgeeks.org/hashmap-size-method-in-java/#:~:text=HashMap.,or%20mappings%20in%20the%20Map.&text=Parameters%3A%20The%20method%20does%20not,pairs%20present%20in%20the%20map.) | Returns the number of key-value mappings in this map. |
| [values()](https://www.geeksforgeeks.org/hashmap-values-method-in-java/) | Returns a Collection view of the values contained in this map. |

**Methods inherited from class java.util.AbstractMap**

| **METHOD** | **DESCRIPTION** |
| --- | --- |
| [equals()](https://www.geeksforgeeks.org/abstractmap-equals-method-in-java-with-examples/#:~:text=The%20AbstractMap.,of%20this%20map%20or%20not.) | Compares the specified object with this map for equality. |
| [hashCode()](https://www.geeksforgeeks.org/abstractmap-hashcode-method-in-java-with-examples/) | Returns the hash code value for this map. |
| [toString()](https://www.geeksforgeeks.org/abstractmap-simpleentry-tostring-method-in-java-with-examples/) | Returns a string representation of this map. |

**Methods inherited from interface java.util.Map**

| **METHOD** | **DESCRIPTION** |
| --- | --- |
| [equals()](https://www.geeksforgeeks.org/map-equals-method-in-java-with-examples/) | Compares the specified object with this map for equality. |
| forEach(BiConsumer<? super K,  ? super V> action) | Performs the given action for each entry in this map until all entries have been processed or the action throws an exception. |
| getOrDefault(Object key, V defaultValue) | Returns the value to which the specified key is mapped, or defaultValue if this map contains no mapping for the key. |
| [hashCode()](https://www.geeksforgeeks.org/map-hashcode-method-in-java-with-examples/) | Returns the hash code value for this map. |
| putIfAbsent(K key, V value) | If the specified key is not already associated with a value (or is mapped to null) associates it with the given value and returns null, else returns the current value. |
| remove(Object key, Object value) | Removes the entry for the specified key only if it is currently mapped to the specified value. |
| replace(K key, V value) | Replaces the entry for the specified key only if it is currently mapped to some value. |
| replace(K key, V oldValue, V newValue) | Replaces the entry for the specified key only if currently mapped to the specified value. |
| replaceAll(BiFunction<? super K,  ? super V,? extends V> function) | Replaces each entry’s value with the result of invoking the given function on that entry until all entries have been processed or the function throws an exception. |