Hash Table

Free Code Camp says:

Hash table or Hash Map is a data structure that can connect keys to values.

It uses a hash function to compute an index into an array of buckets, where one can find the desired values. Time complexity is 0(1).

A hash table is a data structure that implements an associative array abstract data type.

Remember:

1. Values are not stored in sorted order.
2. In a hash table, one must also handle potential collisions.

Cracking the Coding Interview says:

A hash table is a data structure that maps keys to values for highly efficient lookup. There are a number of ways of implementing this. Here, we will describe a simple but common implementation.

1. First, compute the key’s hash code, which will usually be an int or long .