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Hashing Functions

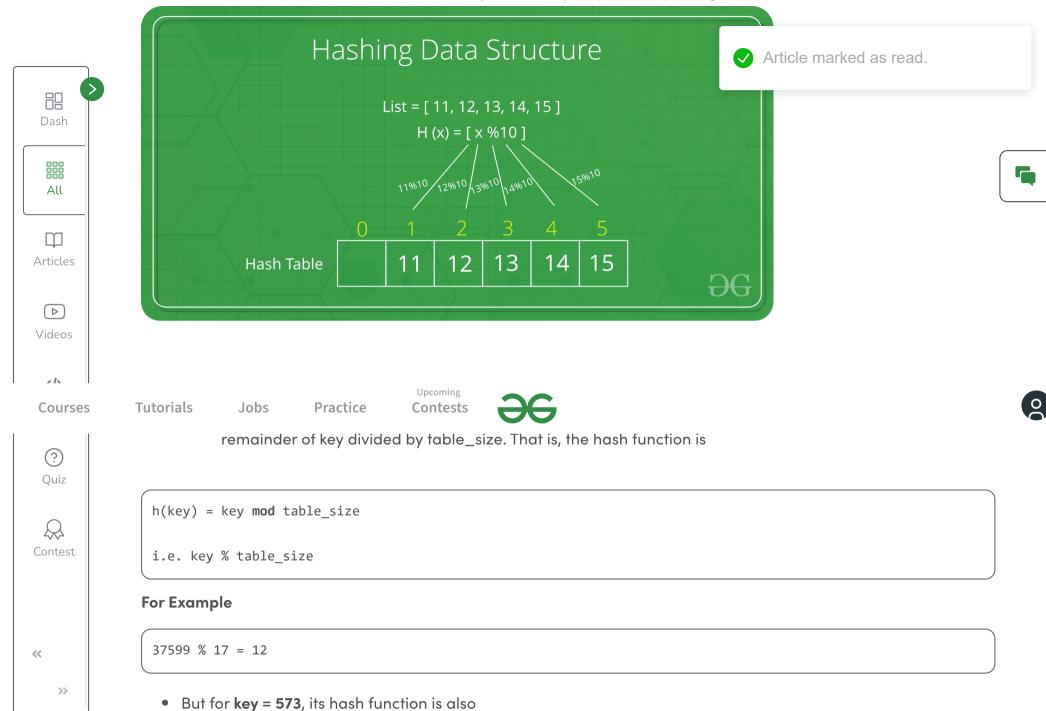


Hashing is a technique or process of mapping keys, and values into the hash table by using a hash function. It is done for faster access to elements. The efficiency of mapping depends on the efficiency of the hash function used.

Let a hash function H(x) maps the value

 \boldsymbol{x}

at the index x%10 in an Array. For example if the list of values is [11,12,13,14,15] it will be stored at positions {1,2,3,4,5} in the array or Hash table respectively.





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1. The multiplication method:

- \circ In multiplication method, we multiply the key **k** by a constant real number **c** in the range 0 < c < 1 and extract the fractional part of k * c.
- Then we multiply this value by table_size **m** and take the floor of the result. It can be represented as



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