Mashing
Pre-Storing & fetching
arr = 583151138765
5 co-mes 3 times - N
8 comes 2 times NNN
5 comes 3 times
$78912+M7N^2$
$\frac{\mathcal{O}}{\mathcal{O}} = \frac{\mathcal{O}(\mathcal{M} \times \mathcal{N})}{\mathcal{O}(\mathcal{M} \times \mathcal{N})}$ Made with Goodnotes

arr = 583151138765 7(>0(N) S(>) O(N) 7(70(m) 70(n+n)

Made with Goodnotes

Number Hashing arr = 283151138765 hash_list=[0] * 9 # Pre-compote for i in range Clen(arr));

hash-list [arr[i]] t=1 MUM ALE P = Enter number = hrint [hush-list [num]]

0 70(N) String = "abcddeaabb2" m 2 -> 0(N) C70(N) 33120000000000 hast-1st TC JO(MXN) TC>O(N) T(7 OLM) 7(7) O(N+M) Character Hashing Made with Goodnotes

string = "Azcd12DeZ"



arr = [55,105,95,5,35.]

$$hash-list = [10|1|10|100010]$$

$$0|2345678910$$



