DAY-36 Design a dorta etnucture for "LRU Cache" cache organised item in orther oof use allowing you to quickly identify which item hasn't been ased for the largest amount of time . "] it should (in this part) support the following operation --1. get (bey) -> cret Fire value (will always be positive) of the key if the key emists in the cache, otherwise return -1. 2. set (key, value) > set or Insert the value of the key is not already present. its capacity, it should invalided The least nevently used Henry before inserting them Approach !--> The bey to solve rus problem is using a double linked byt which enables us to quickly move REDMINOTE ? he LPV eache is a hash
al QUAD CAMERA Reys and double linked his so

> The bash may makes the time Infed for nodes make the modes adding / removal Operations 01) Dongle mentation; class DLL Node: dut - imit - (self, lang, val): sold, bey = leay Class L&V Cache: None def -- init (selt, capacity): self capacity = capacity
self map = []
self head = DLL Node (0,0)
self toul = DLL Node (0,0)
self head heat = self toul and want book self. ton'l prev = self. head gelf count = 0 def delete Node (self, node): node, previnent = mont node went mode, non! por = node preu def add To Head (self, node): noche, nent : self head nent no de nent prev = node 100 hade prev = self . Lead O REDMI NOTE 9 CO AI QUAD CAMERA self. head. nent = node.

def get (self, bey): if lay in self-map! node = self marp [bey] result = node, val self delete Node (node) self and ToHead (node)
point (" & result bey found") return result probat ((), formet (bey)) def set (self, key, rathe), if key in self map node = self. mapky] node raboe : value self deleterode (node) self. add to Head mede) node = Dir Node (bey, rabel) self map [kay] i node if self count could capanty Self, add to Head (node) del self map Bert tail pro by self delaterhode all tail spre self, add to Head mode REDMI NOTE 9 AI QUAD CAMERA