Number 1 18 lands & Leetco de (200) Question: mxn 2D binary grid Island Osweder An island is surrounded by water formed by connecting adjacent lands horizontally / vertically of not diagonally.
We can assume all 4 edges of grid are surrounded by water e start from the leftmost topmost point of grid if you encounter a land(1) keep looking around in all possible direction for adjacent lands and continue to do this until an island is formed. \* Once an island is found increase the count of no. of islands. Traversal is done? + for every row theck every column.

So if its already visited in the previous case of des (make sue it a to 0. a so when you expounter I it was definitely not part of the previous islan-Start the offs again · At last return the count (no of islands).

Dfs fn (private) Pseudocode: Main for if (i,j) egrid f. grid bid bid bid = 1 (lend) for every now check every wheren if land (1) change it to '0' call dys f. then do des on possible adjacentairs. increase count ← (i,i)→ count will be invessed when for a (i,j) offs is done on appassible ways completely Main fr Code private void dfsfill (chevit JI ) quid, inti, inti)? public int num Islando (char[][] grid) if Lizo fljzoffigad-lyth efigad To. int count =0; forlint i=0; icgnid length; itt) foolinti=05 j < gridto] eyth; j #) } grid [i][j] = '0'; if (gnd[i][]=='1){-==1' dfsFiu(gnid, i+1,j);
dfsFiu(gnid, i-1,j);
dfsFiu(gnid, i-1,j);
dfsFiu(gnid, i,j+1);
dfsFiu(gnid, i,j-1); dfsFill (gridsisj) Count His 沙性吗 return count;