AKSHAY MITTUR Date Page 1 18M18CSO10 07-10-20 Number of Islands 3 Disjoint Sets Algo?) Start 11) int result=0 111) traverse through matrin,) if artistis= 1 =) Check its neighbours =) if neighbous = 1, take union of it and its neighbour (reate array to store frequency of sets

v) Traverse matrix again, if arr [] [] = find its set

r) If it's frequency is 0, result t= 1. function. Pseudo (acte int count Island (vectors vectors int >> a) { int n= size(a) int m = size(a[o]) dus => disjoint union set (n *m) for j'in (0 -n): fork in (0 >m)? if alj [K] = 0 (online) if j+1 cn & a [j+1] [K]==1
dus unon(j+m+K, (j+1)+m+K) if (j-1 >=0 & a [j-i] [K]==1 dus Union (j + m +k, j + m + K + 1)

dif(K+1 Km l of) [K+1] == 1 dus. Orion (j + m +k, j + m +k+) (PTO