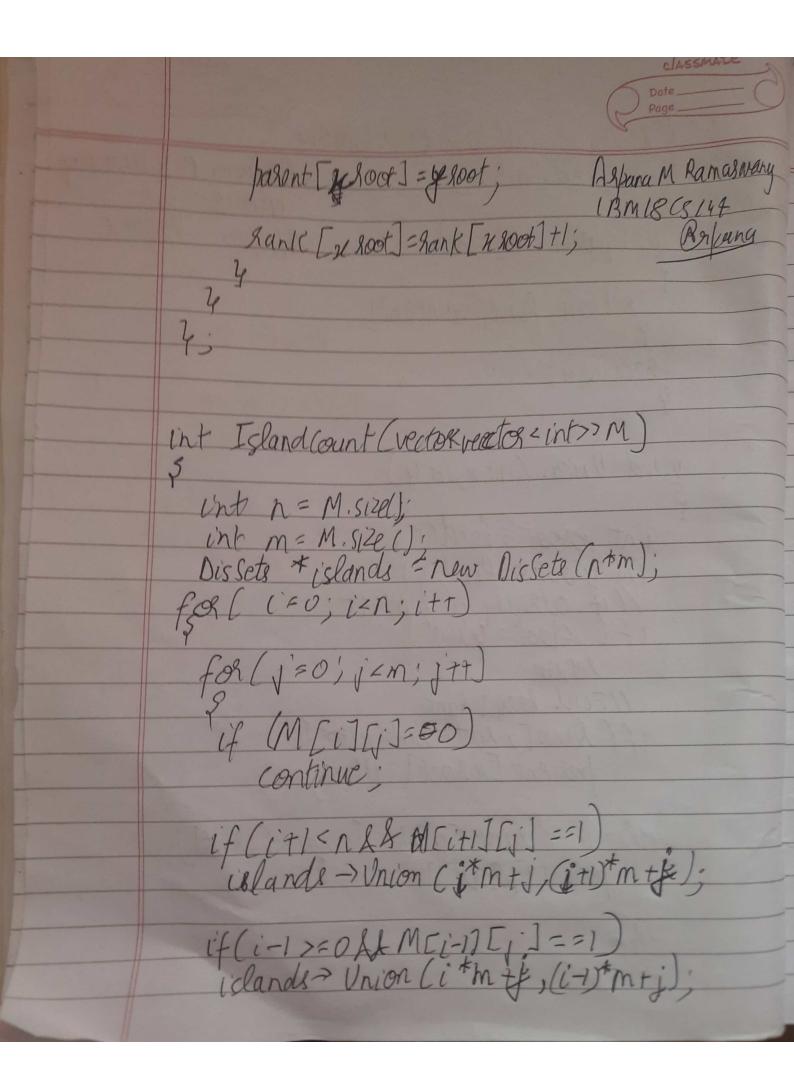


1/ Accussively call to find Acpresentative Arpana M. Ramaswany 1BM18CS147 07/16/20 Bylana if (parent [x] = x Return find (faient(x)); geturn x; void Union (int x, int 4 int proot = find(n int yout = find (4) 11 A already in Sami set leturn. 1/Find legger gank if (lank [x loot | lank [4900t]) Clacif (sunk [4900t] (sank [x800t]
pasent [4800t] = x soot &; Clet



if (j+1<ml M [i] (j+1)==1) TBMi, islandi-) Vnion (i+m+j, (i-1)+m+j). if (j-1>=0 AL m [j][j-1]==1)
islands > Union (i+m+j, i+m+j-1); if (it1 < n AA M [iti][\$t] == 1 lx jt1 < m)
islands > Union (itm + j) (iti)tmt, [t]); if ( it) < n lk j-1 >= 0 lk m [iti][j-1] == 1)
islande -> Vnuon (i+m+j, (it)+m+j-1); if Ci-1>=0 As jet1<m AAM[[-1] [i+]==1]
cslands-> Union (i+mtj, (i-1)+mtk+1); if (i-1)=01kj-1>=0 AAM[i-1][k-1]==1)
islands-> Union (j\*m+k, (j-1)\*m+j-1); int \*facy = now Enten+m]; unt num = 0;

DHIEIRAMR for (i=0; i=n; i+t) for (1=0) jem; jett) int x = (slandy-) fund (i+m+j); freq [x] +t; coutheturn num;