Karthik Venugopal (BM18CS043 Number of Aslands Using Pigorat set 1/10/2020 & sudored count Islands (int a [][]) m = alo). size(); dypoint * dus = new disjoint (n * m) for (int j=0; j < n; j++) sor (int k = 0; k = m; k++) (ac; JEk) == 0)
continy; if (j+1< n 44 9[j+1)[k]==1) lus > Union (j * (m) + \$ k, (i+1) * (m) + j); if (jj-1)= 0 44 a [j-1] [j==1) dus -> Union (j. * (m) + j.

(j-1) (x) * (m) + \$ fxxx k). Ct 17=1 720 14 1 if (k+1 < m 44 a G)) [k+1] == 1) dus > Union (; * (m) + E, () * (m) + k+1); if (k-1)=0 44 16;][k-1] ==1) du > Varion (; x (m) + k, (1) 7 (m) + k-1)

if(j+1 < n 44 k+1 < m 14 15 j+17 [+ 11] dus > Union (; * (m) + * , (+1) *(m) + ++1) ; f(j+) <n 44 k-1 >= 0 44 a[j+1)[k-1] dus -> Unios (j * m+k, (j+1) 4 (m) +2-1) if (; -1 >= 0 44 k+ 1 <m 44 +5; -D[+1] dus > Union (j + m+k, (j-1) +m+k+1) if (j-1)=014 k-1)=014 acj-1)[k-1]=1) dus -> Unios (; * m+k, (j-1) x m+k-1) int " (= new in [n = m). for (int) = 0; ; < n; ; ++) for lint heo; k(m; ktr) if (aC;][x]== 1) ent x = dus > find () mmxx). CENTH,

else CEXTEX dus is an object of a class

dus as o selans which has a find function

sea and a union function, which