Write - up

>> Islands Problem using Disjoint Sets

-> Pseudo-code :-

Megiven a 2-0 matrix mat (row) [col)

11 Create a 2-0 matrix visit (row)[[ce]

11 Oracle a parent array, parent [row][cd]

for all post in row for all posj in cont:

if mat Gastal=1:

11 create set with mat (pas) as parent make setc) parent (row)[col] = mat (row)[col]

for all posi in rows:

for all posj in col:

if ! ulsit [posi][posi] && most [posi][posi] ==1:

visit [posi][posj] = = true

for all neighbours in mat [posi] [posi]:

if mot cposiscposj) ==1:

// Union of set mat [posi][posi] & mat [neighborn]

for all i in row:

for all ; in col:

counte distinct parent [i)[j]

no-of-island = count

veturn no-of-island