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1BM18 CS075
Batch-4.

```
{1, 1, 0, 0, 0},
{0, 1, 0, 0, 1},
{1, 0, 0, 1, 1},
{0, 0, 0, 0, 0},
{1, 0, 1, 0, 1}
```

```
class Disjoint
  {
  vector <int> rank, parent;
     int n;
  Disjoint (int n).
        {
          ~~rank, parent~~
        rank.resize (n);
        parent.resize (n);
          this -> n = n;
        set();
     }.
   void set ()
         for (int i=0 ; i<n; i++)
          parent [i]  = i;
        }
void union  (int x , int y)
        int  xRoot  = find (x);
        int  yRoot  = find (y);

        if (xRoot  = =  yRoot)
              return ;
   else if  (xRoot < yRoot)
              return    parent [xROOT] = yRoot
       else
          parent [yRoot]   = xROOT;
```

```
int Count (vector <vector <int >> a)
        { int n = a.size (0)
          int m = a[0].size ().
     ~~for~~ Dejoint *d = new Dejoint (n*m)
     for (int j =0 ; j <n ; j++).
            { for (int k=0 ; k<m ; k++).
       if ( a[j] [k] = =0)
            continue ;
```

* Now checking all neighbours & then union