

main ( )

{ enter "no. of rows and column"

read rows, columns.

arr [ ] [ ] = new int [rows] [columns]

for (i=0 → rows)

for j=0 → columns)

arr[i][j] = fs.nextInt();

for (int i=0; i<rows; i++)

for (int j=0; j<columns; j++)

{ if (arr[i][j] == 1 ~~if it is visited~~)

{ if (j+1 < columns && arr[i][j+1] == 1)  
ds.union(j\*column + i, (j+1)\*column + i)

if (j-1 >= 0 && arr[i][j-1] == 1)  
ds.union((j-1)\*column + i, j\*column + i)

if (i-1 >= 0 && arr[i-1][j] == 1)  
ds.union(j\*column + i, j\*column + (i-1))

if (i+1 < rows && arr[i+1][j] == 1)  
ds.union(j\*column + i, j\*column + (i+1))

if (check all the remaining boxes

}

```

is visited [] = new boolean [rows * column]
for (i=0 → rows)
    for (j=0 → column)
    {
        int x = ds.findSet(i * m + j)
        if (isVisited(x) == false)
            res++;
    }
output → res.

```