

Given a 2d array comprises of 0 & 1, find out the number of clusters of 1, in cluster if the adjacent item is 1 i.e. horizontally or vertically would fall in same cluster. You may assume all four edges of the grid are all surrounded by 0.

**Example 2:**

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 0 |
| 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |

Output: 1

**Example 2:**

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 1 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 1 | 1 |

Output: 3

Solution -

```
int getNumberOfClusters(int[][] arr)
{
    //your code
}
```