

①

Advanced Data Structures Lab

Batch - 5

Program - 3.

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```
int count_island() {  
    int islandnum = 0;  
    bool vis = false;  
    for (0 to column) {  
        for (0 to row) {  
            if (matrix[i][j] == 1) {  
                if (neighbourse(i, j) == True)  
                    do Union();  
            }  
            else  
                islandnum ++  
        }  
    }  
}
```

```
bool neighbourse(int m, int n)  
{  
    if {  
        matrix[m-1][n] == 1  
        matrix[m-1][n-1] == 1  
        matrix[m-1][n+1] == 1  
        matrix[m][n-1] == 1  
        matrix[m][n+1] == 1  
        matrix[m+1][n] == 1  
        matrix[m+1][n-1] == 1  
        matrix[m+1][n+1] == 1  
        return true  
    }  
    else  
        return false.  
}
```

Rutagut.