```
Island_count ( A, N, M, i, j )
{
    if([i][j] = 1)
    {
        Islands_count ( A, N, M, i-1, j-1 )
        Island_count ( A, N, M, i-1, j )
        Island_count ( A, M, M, i-1, j+1 )
        Island_count ( A, N, M, i, j-1 )
        Island_count ( A, N, M, i, j+1 )
        Island_count ( A, N, M, i+1, j-1 )
        Island_count ( A, N, M, i+1, j )
        Island_count ( A, N, M, i+1, j+1 )
    }
}

Island_check ( A, N, M )
{
        cnt = 0
        for i in (0, N) :
        for j in [0, M) :
            if (A[i][j] == 1) {
                cnt += 1
                Islant_count ( A, N, M, i, j )
        } return cnt
}
```