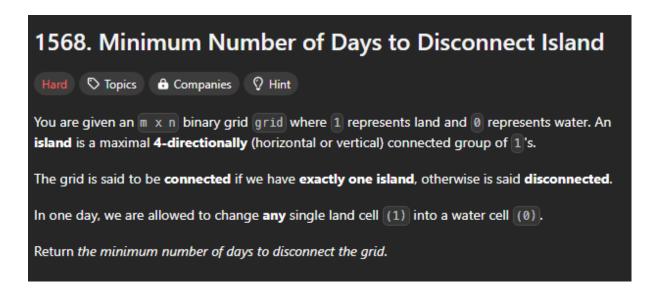
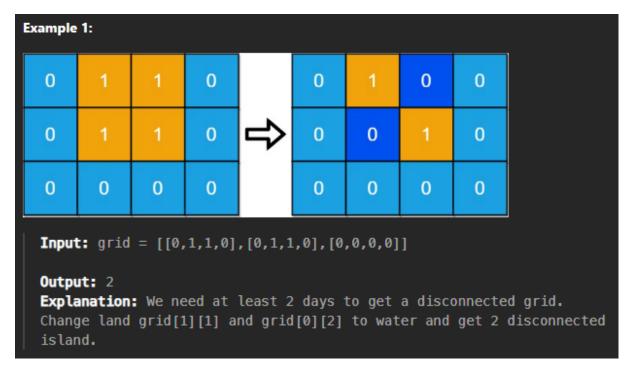
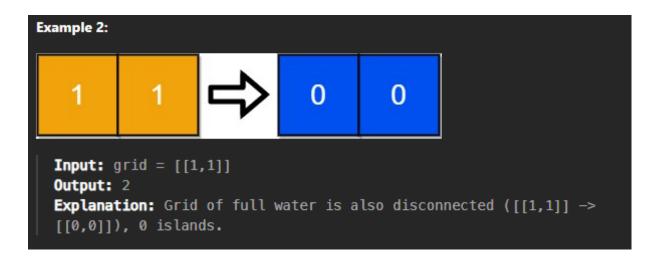
1568 Minimum Number of Days to Disconnect Island - 11/08/24 (hard)

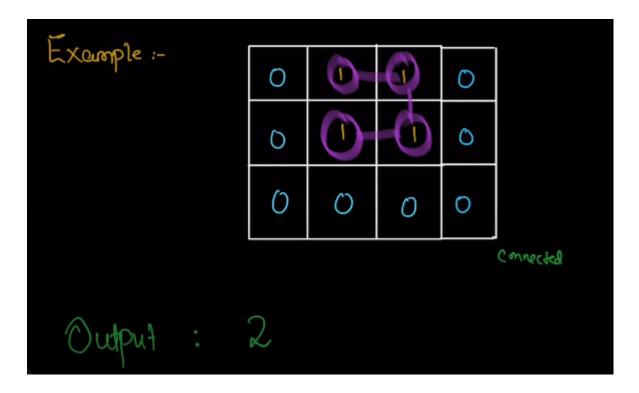
but quite easy





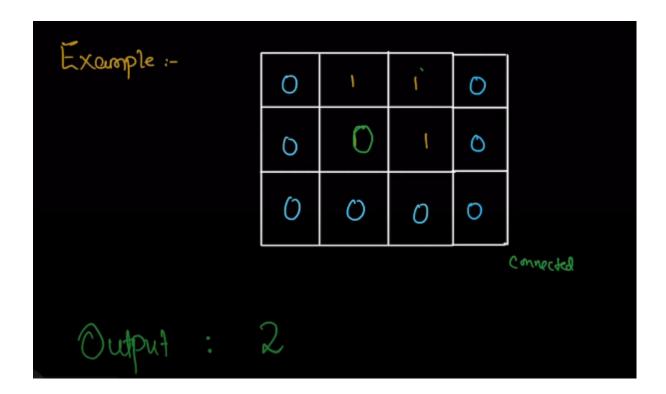


this is called connected because all 1's are connected horizontally and vertically

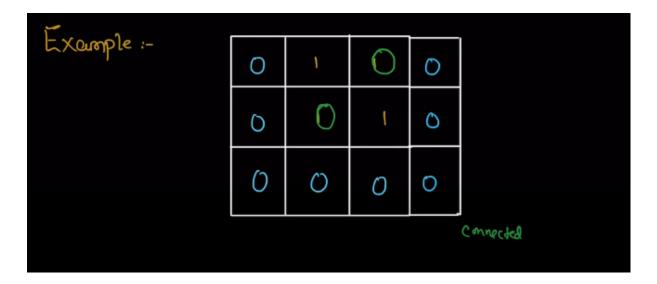


to disconnect it took 2 days to disconnect

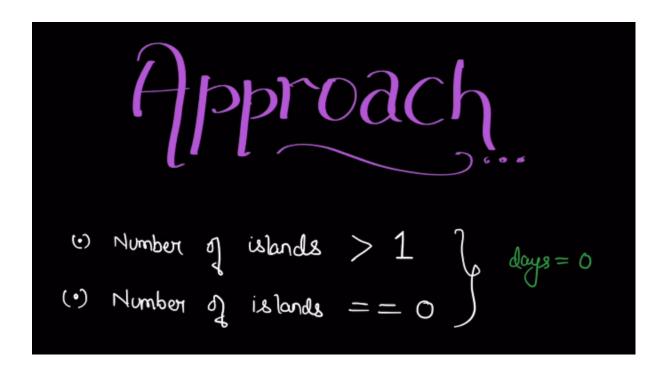
1st day we make this zero



2nd day we make this zero

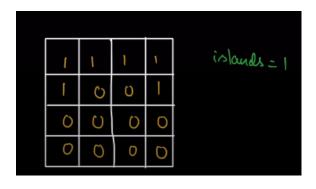


Approach

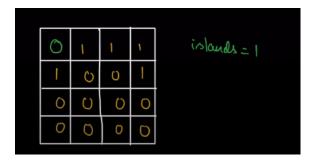


example

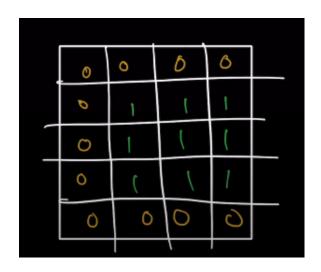
so we even change 1 to 0 in one position



now we have two island
so we disconnected it
we just have to disconnect the island
by 2 island or 0 island

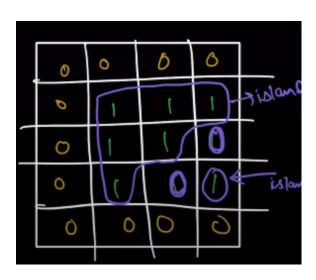


new example



we can disconnect any island inn just 2 days easy method

by just diagonally replacing 1 by zero to disconnect island



so we took

dasys =
$$0,1,2;$$

max limit is 2 days to solve this question

Pseudo code

tips:

we know that , to disconnect island we need 2 days at max so we can just directly return 2 days ,if we cant solve it in 1 day

Time Complexity = $O((mxn)^2)$

We can solve this using Tarjons algo