



Algorithm=

For Case 1, Case 2(11),
we only have 0, 2 to choose.

And because Case 2 (11), we don't know which edge should we remove.

⇒ Just try removing [] and do an union find,

if we don't see a loop > remove []

else > remove []

For case 2 (i), every edge on the loop can be removed

⇒ Do an union find

3 return the edge that causes a loop