



for every point (x, y) .

$\text{union}(x, y)$

ex: If we already know $(1, 2)$ is in a group.
and next is $(1, 0)$.

if we run union of $(1, 0)$, then we are
able to group $\{0, 1, 2\}$ together.

To make the grouping work, we need
a way of encoding to tell x, y apart.

Also we know that from the question,

$$0 \leq \text{stone}[i][j] < 10000.$$

So we can encode y as $y' = y + N$. $N = 10000$.

Finally, largest number of moves = total - number of groups.