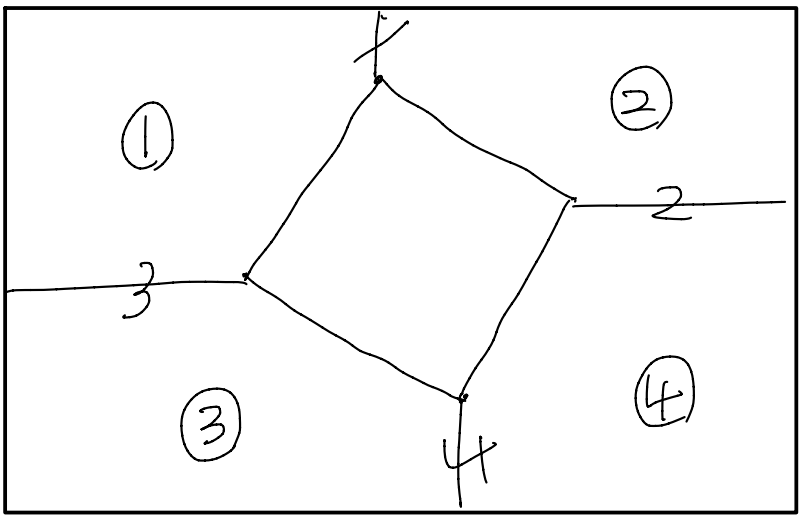
게리맨더링 2.

일단 누적합.



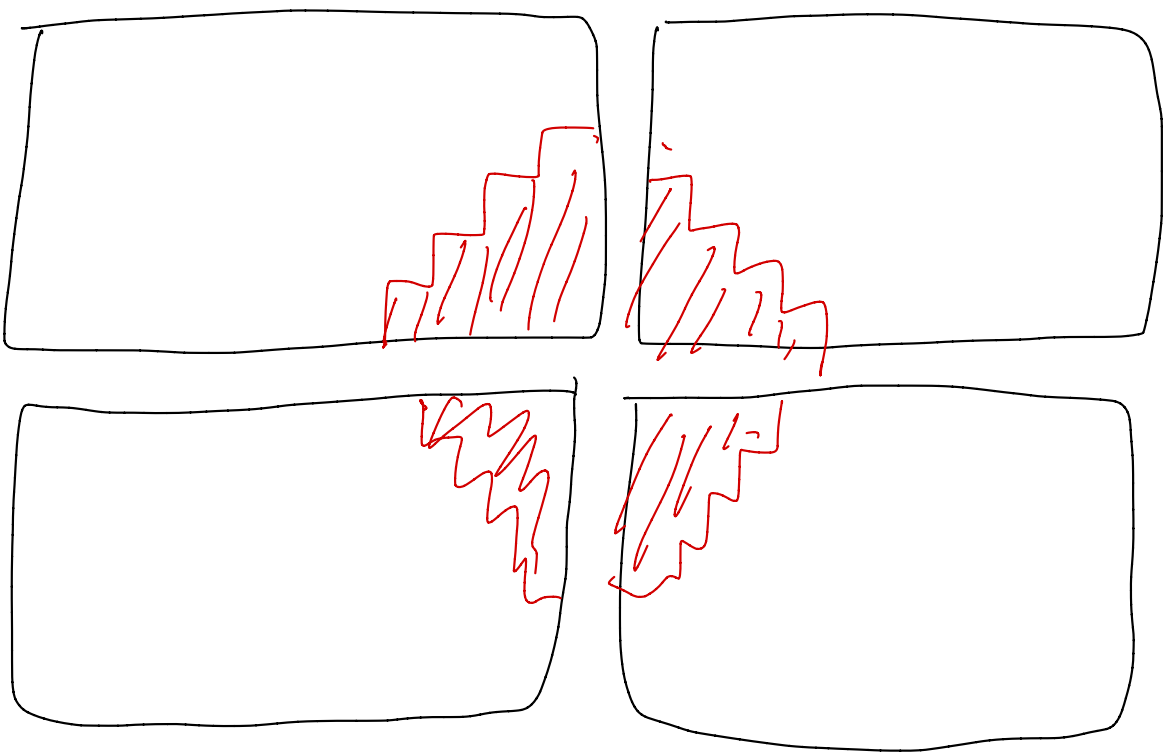
최초 아이디어

?

누적합의 재귀?!

너무 복잡해서 포기...ㅠㅠ

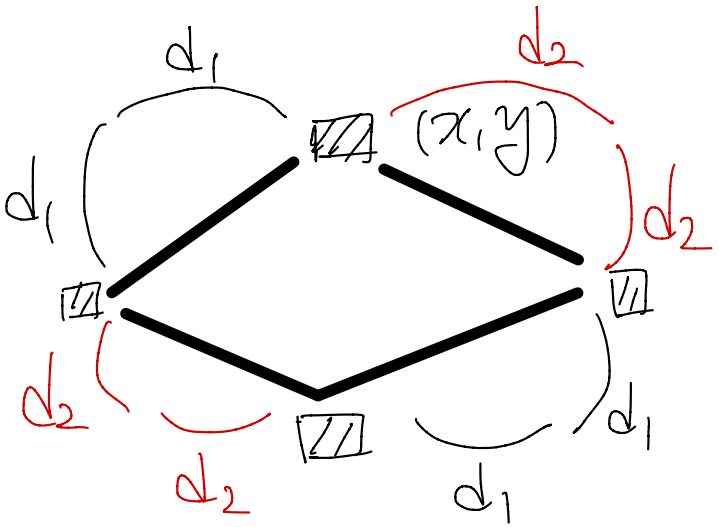
결국 고등 index 들어...

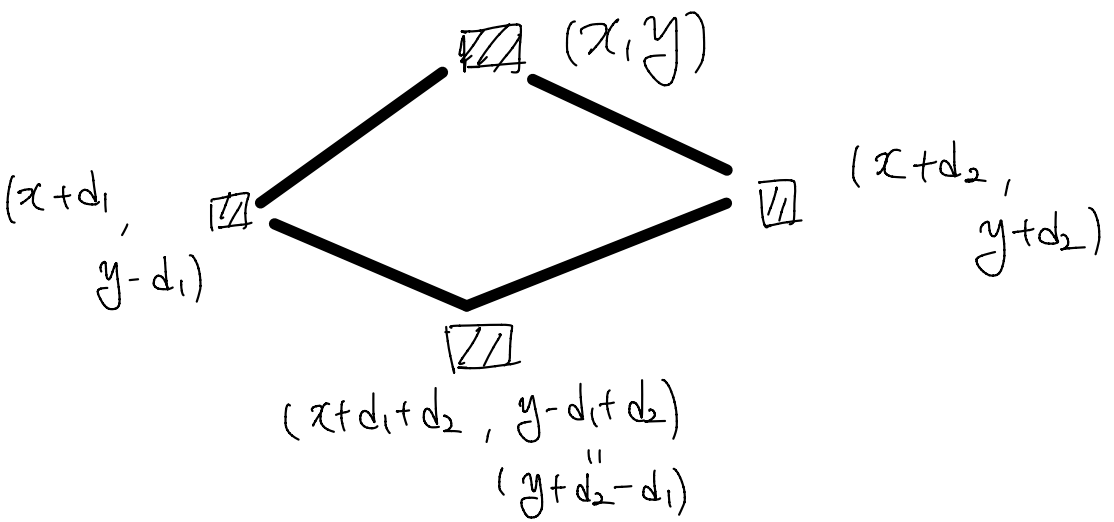


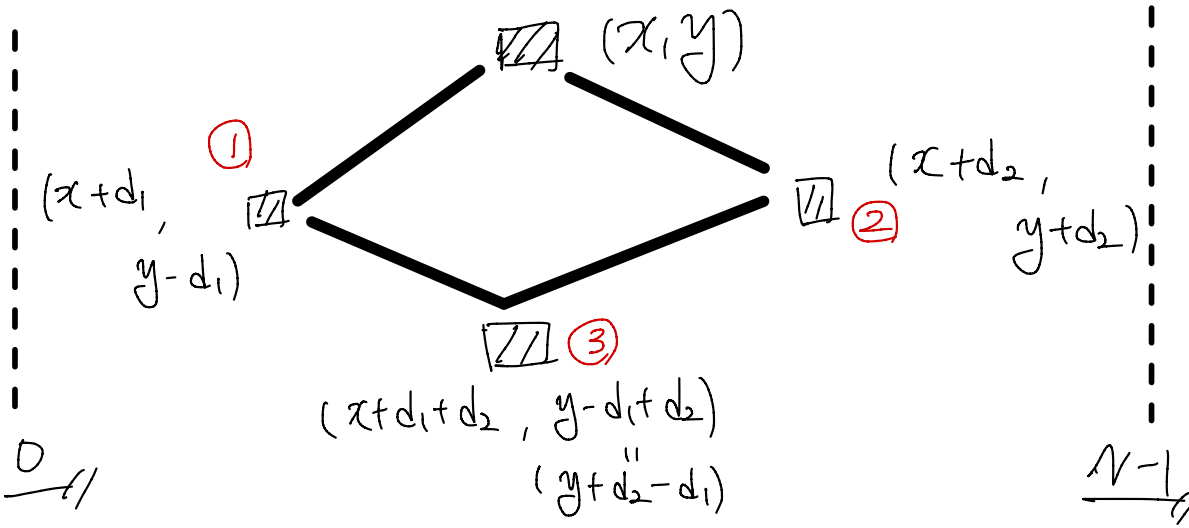
각각 get one
two
three
four

) 각각 공간

five = 전체에서 빼기







x, y는 (0,0) ~ (N-1, N-1) 로 2중하는 도일 건데,

$d_1, d_2 = ?$: 각꼭짓점이 한계를 벗어나지 않도록!

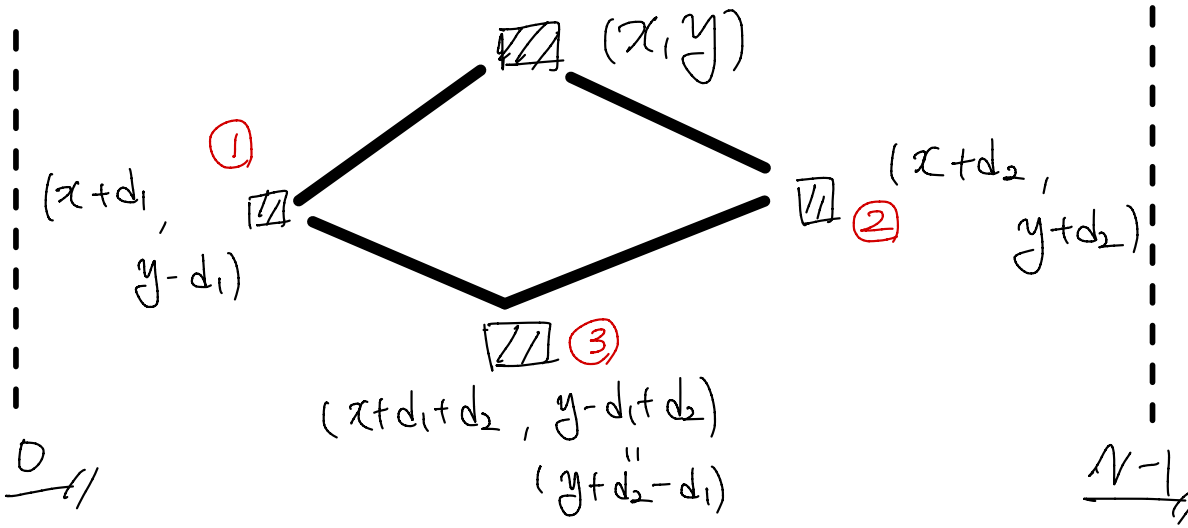
① $x+d_1$: ③ 에서 자동고려.

$y-d_1 \geq 0 \rightarrow 1 \leq d_1 \leq y$

* 문제에서 준조건!

② $x+d_2$: ③ 에서 자동고려

$y+d_2 \leq N-1 \rightarrow 1 \leq d_2 \leq N-1-y$



③ $x + d_1 + d_2 \le N-1$

$y - d_1 + d_2$: ① 과 ② 에서 자동고려.

$d_1 \le N-1-x-d_2$

범위를 최대한 좁히기 위해서.
d_2 의 (최대) 를 생각

$d_2 \le N-1-x-d_1$

범위를 최대한 좁히기 위해서.
d_1 의 (최대) 를 생각

$d_1 \le \cancel{N-1} - x - (\cancel{N-1} - y) \equiv y-x$.

$d_2 \le N-1-x-y$

정리!

$1 \le d_1 \le y$

$1 \le d_2 \le N-1-y$

$d_1 \le y-x.$

$d_2 \le N-1-x-y$

$1 \le d_1 \le y-x.$

$1 \le d_2 \le N-1-x-y$