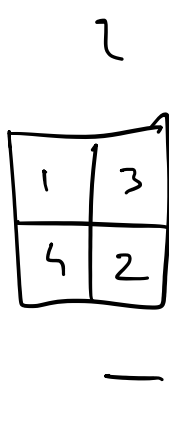
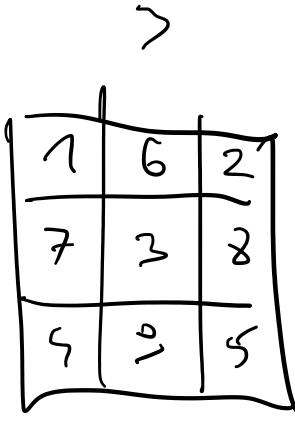
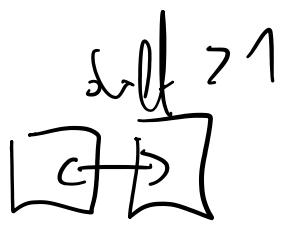


$1 \dots n^2$



-1

$i < j$

$a_j - a_i = j - i$

3 5 1 4 6 6

0 1 2 3 4 5

3 4 -1 1 2 1

. * , . . .

* . *

* * ... * * . . * . *

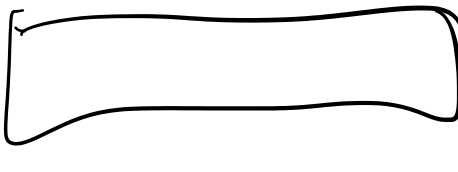
* . * ↓ ... * , **



sum

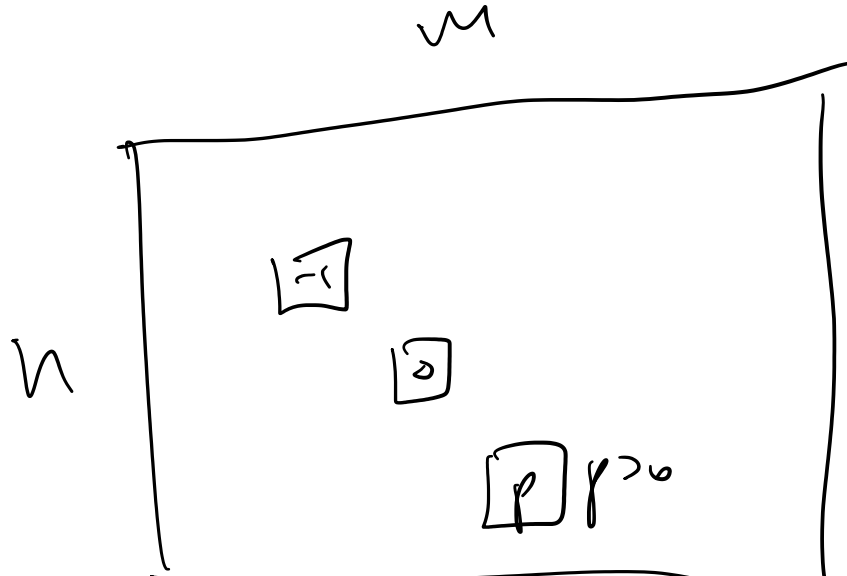


$2 \cdot 10^5$



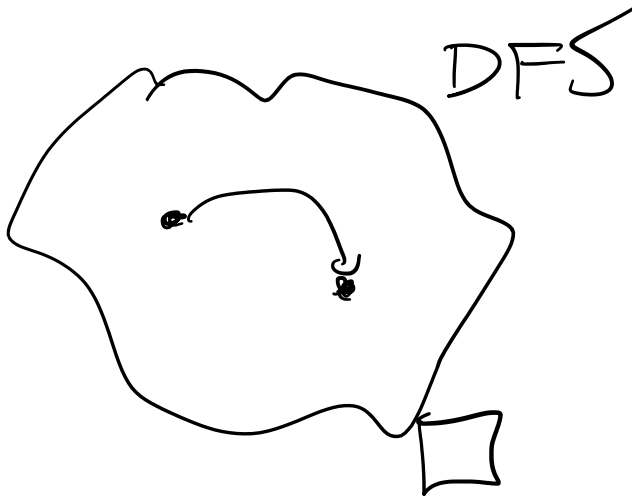
x y query
guessed in [x, y]

! 5

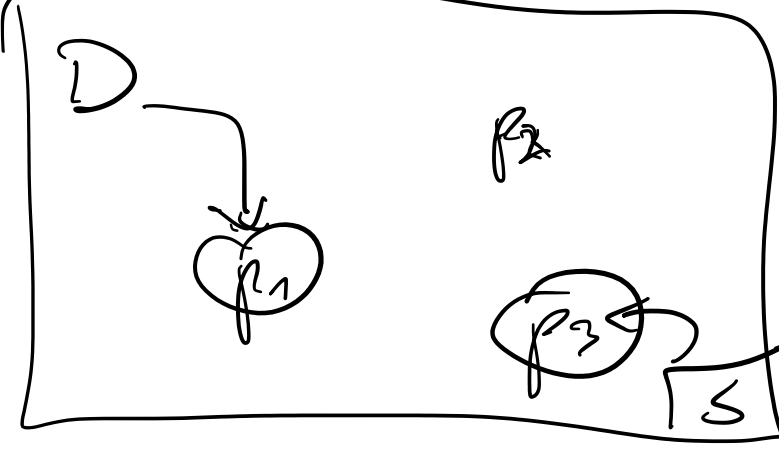


n

1000



[5]



deepest Portal $D \rightarrow p$
+ cost of p



$S \rightarrow p$
+ cost of p

no portals \rightarrow special case