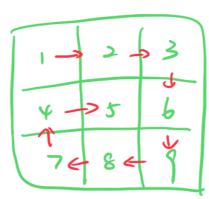
54. Spiral Matrix

- m×n meetrix
- · spiral order

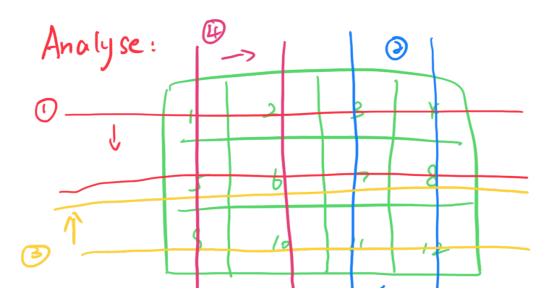
Example:



Seems like no better algorithm.

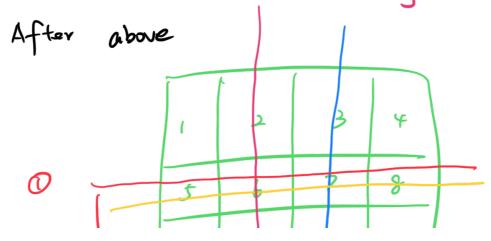
We can define 4 directions

for helping us to loop this matrix.



$$ColRight$$
 from 3 to 2

res = $[1,1,3,4]$
8, 12



9 19 12

pseudo code:

NOW, we have 4 directions.

initialize

ans = IJ

(00ping:

while ctrue):

first row

Jor (i= colleft, ic= collight, i++)

ans append [mortrex [1]]

if (RowTopff > Row Bitt)
break

for (i = Portop, ic=Ron Bott,
i+f
ans. append (_ _ _)

if 1 col Right -- 2 col left break

3

Above 4 steps corresponding to Steps in Analyse.

Return ans.