Sunday, 26 December 2021 8:39 PM

Q Bag of tokens

power → p ✓
score → 0
tokens = [100, 200, 300, 400]

max total score by potentially playing each token in one of the two ways:-

① power ≥ token[i], face up ↑
lose power ↓ ↑1 score

② score ≥ 1, face down ↓
gain power ↑ lose 1 score ↓

Eg: [100, 200, 300, 400]
p = 150
s = 0

p = 150 − 50 = 100 + 400 ≥
s = 1 − 1 = 0
p = 500 − 200
s = 0 + 1 ans → ②
p = 300 − 300
s = 1 + 1
p = 0
s = 2 ✓

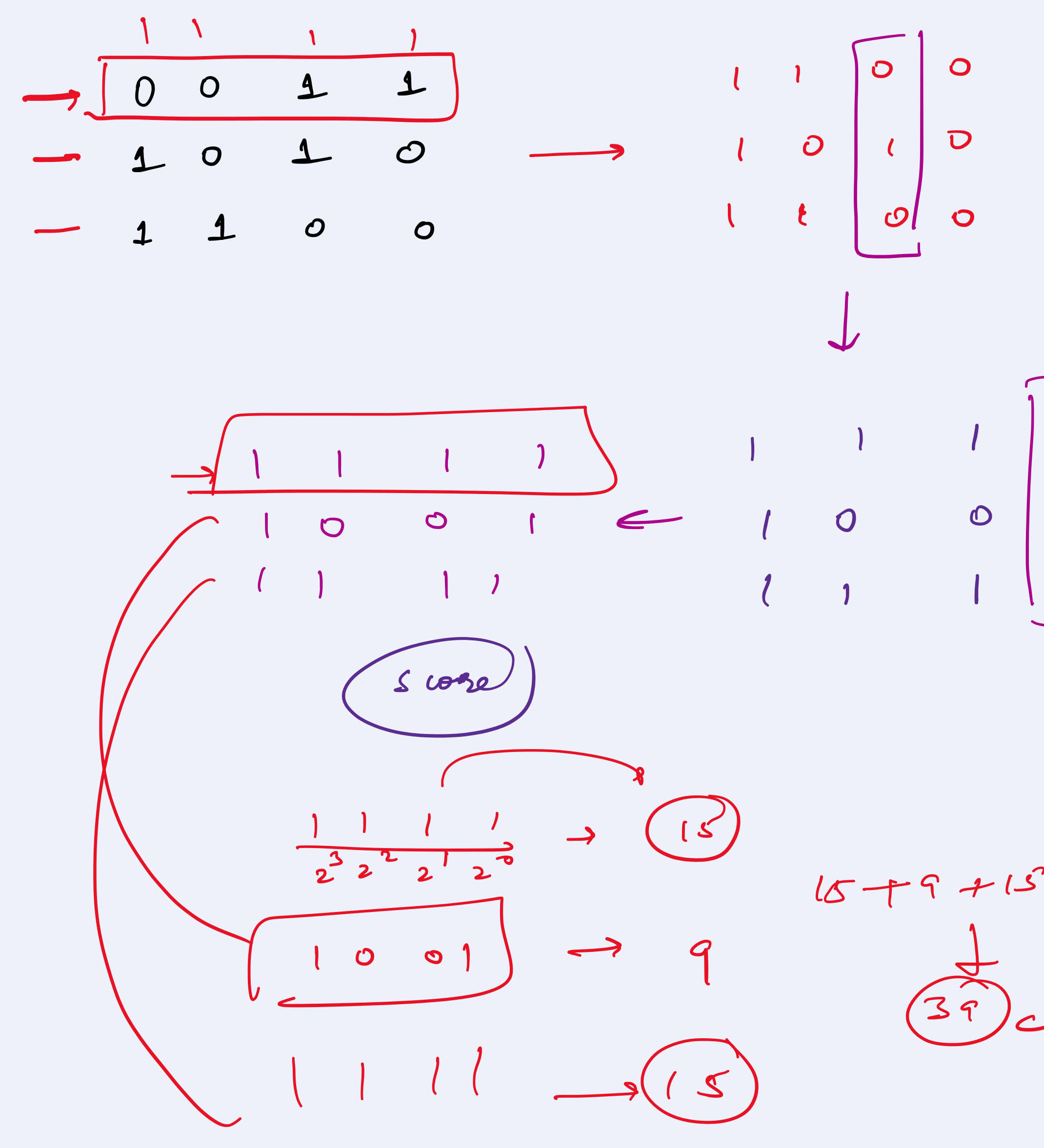
↑ face up ↓ lose power ↑ gain score
face up with smallest value

↓ face down ↑ gain power ↓ lose score
face down with longest value.

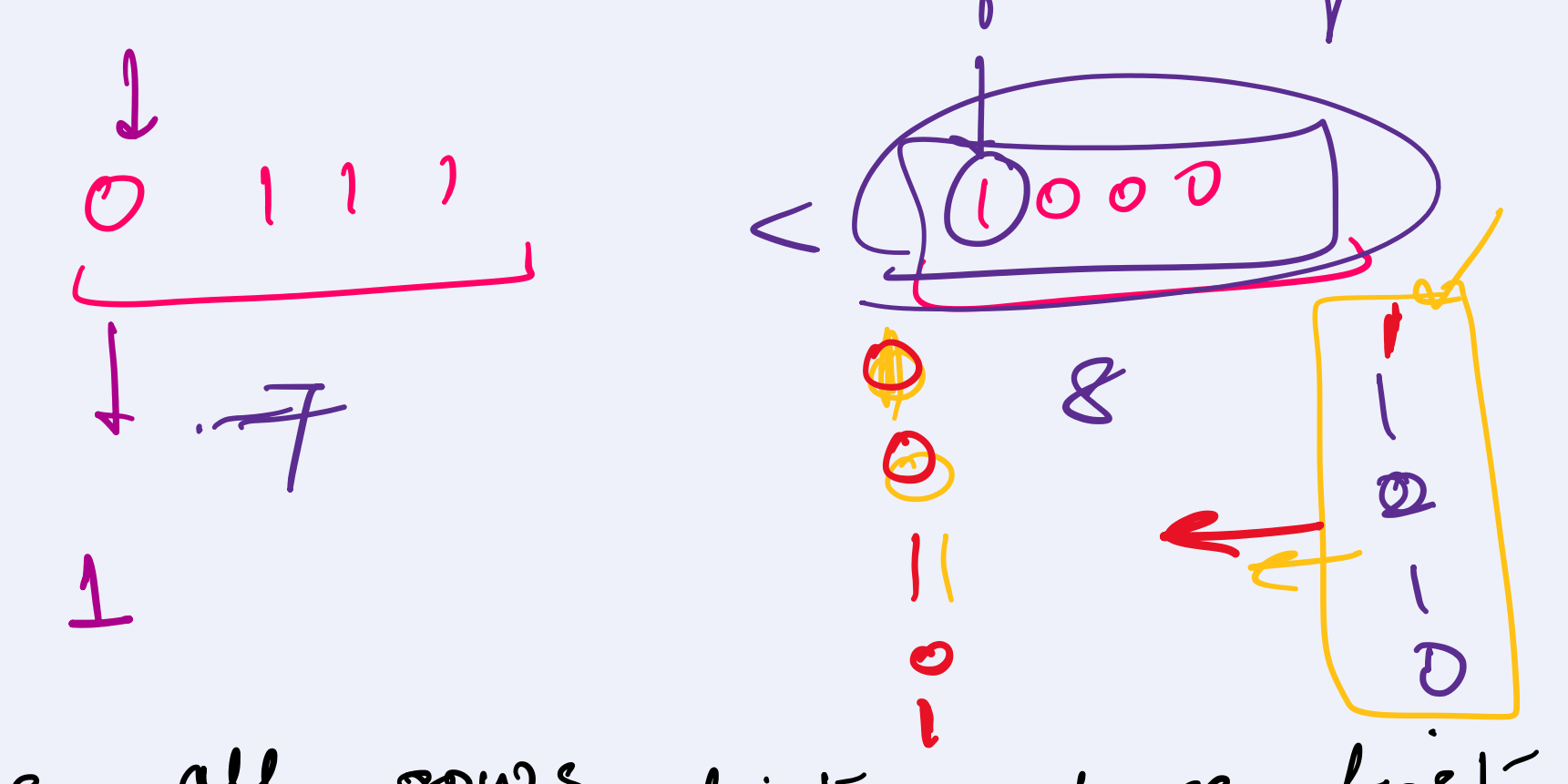
Always try tokens face up until exhaustion then play one token face down & continue.

Q Score after flipping matrix

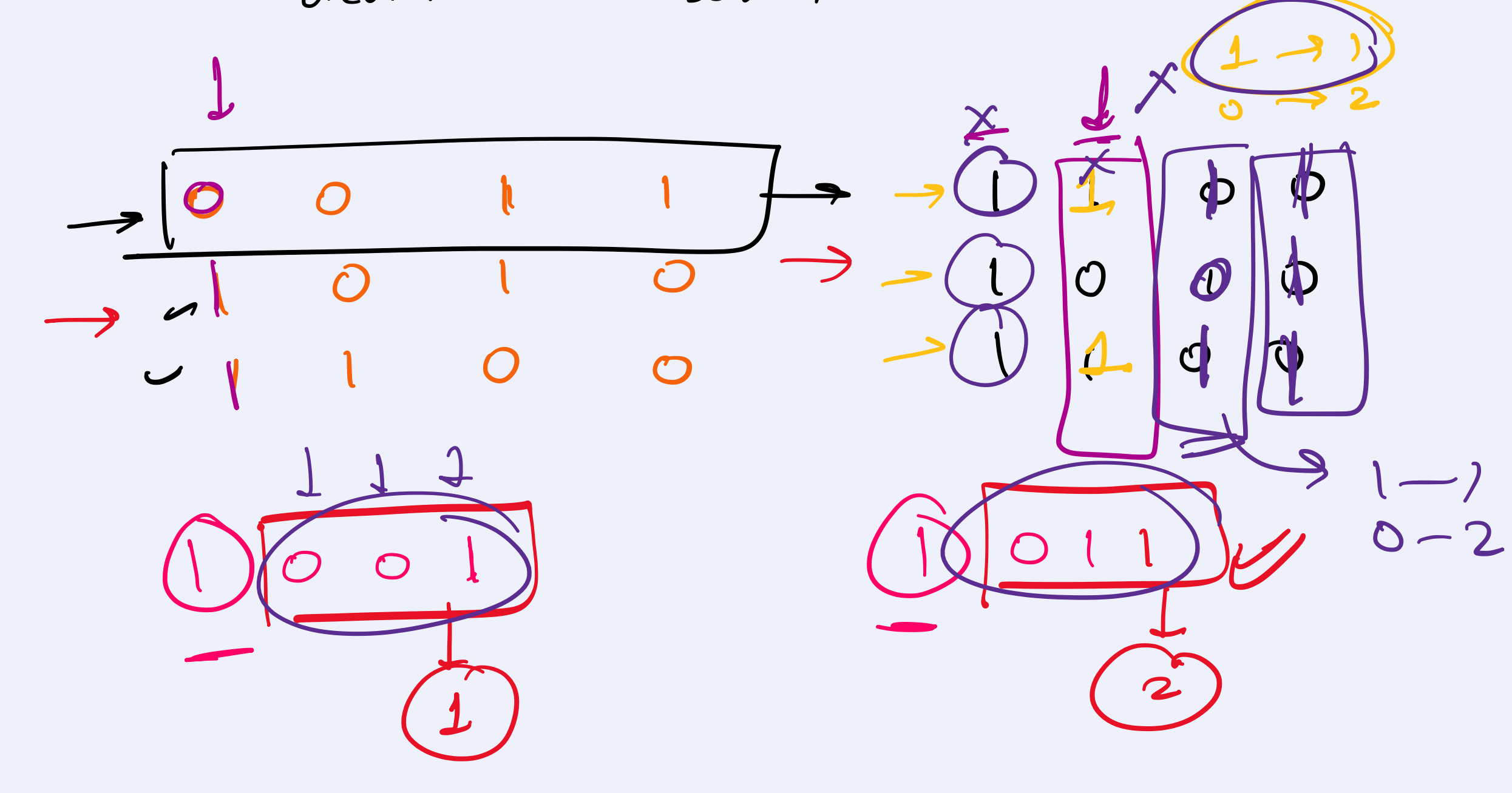
m × n grid
any move → maximise score



maximising the no 1's as left as possible



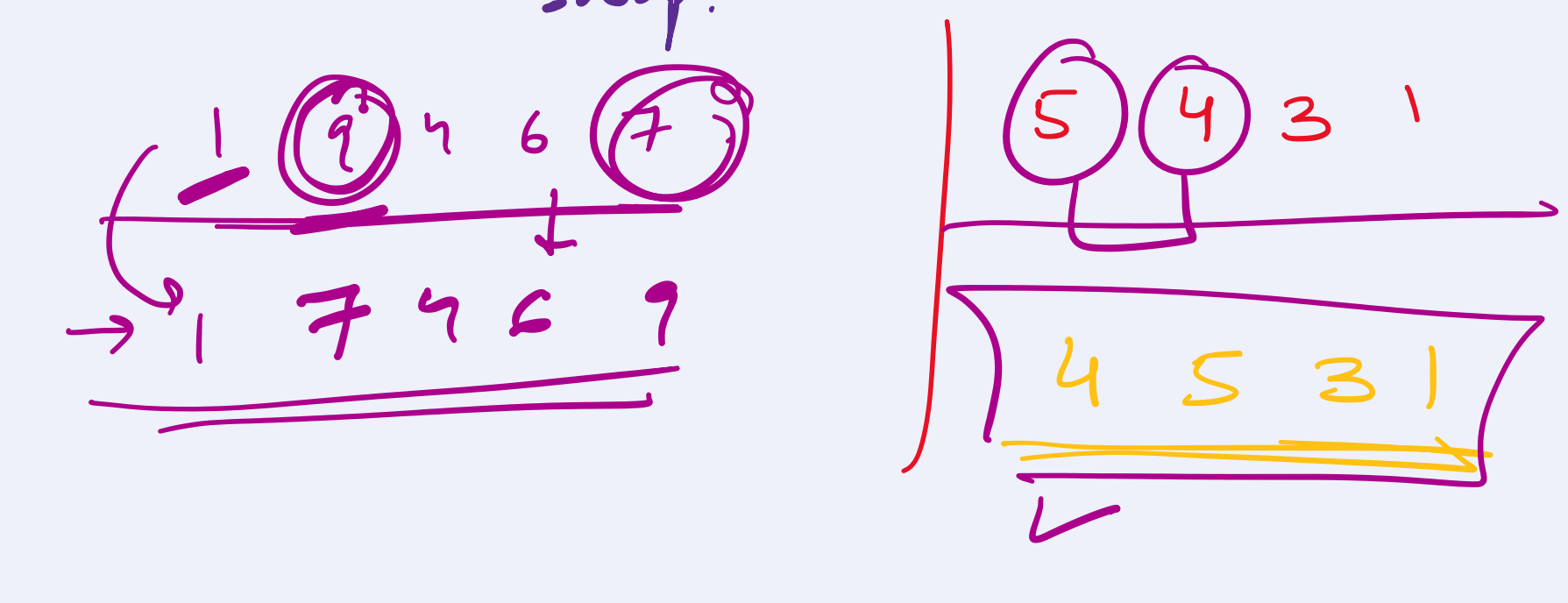
Flip all rows first, whose first column is zero.



Q Previous permutation & one swap

arr → [ ]

lexicographically longest permutation that is smaller than the arr & can be made with exactly one swap.



sorted