

0

grid maximum 10×10 ,
 $\text{grid}[i][j] \in (1, 100)$

max score \rightarrow

condition (i) One element from 1 row

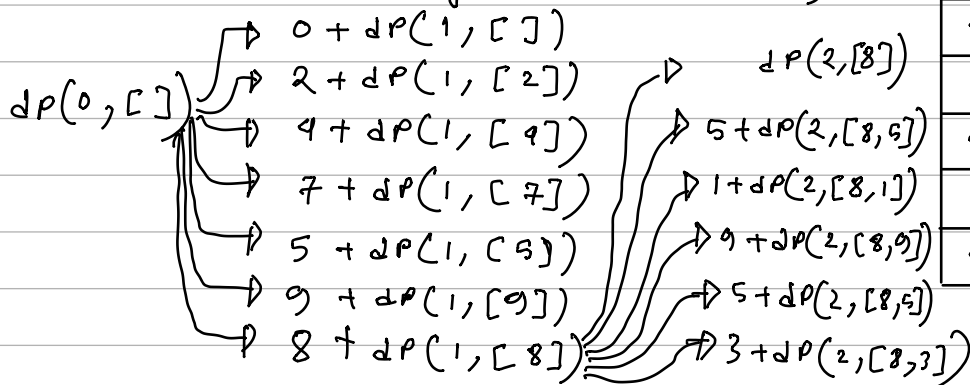
② No 2 element should be same

2	4	7	5	9	8
8	5	1	9	5	3
3	9	5	1	8	9
4	8	9	3	5	2
1	5	2	8	4	4
7	5	3	1	6	4

Grid DP \gg

Option 1:

state: dP (row, alreadyPicked value [...])



2	4	7	5	9	8	0
8	5	1	9	5	3	1
3	9	5	1	8	9	2
4	8	9	3	5	2	3
1	5	2	8	4	4	4
7	5	2	1	6	4	5

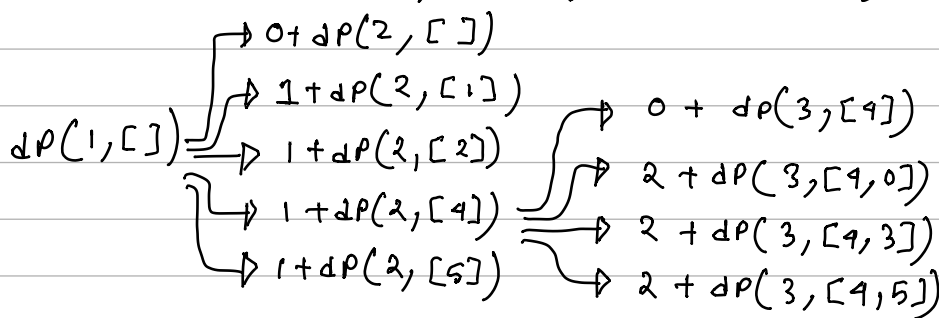
* DP memoization $in + [10][2^{100}]$

$$i = 0 \dots 10 \quad \text{mask} \quad \underbrace{000 \dots 0}_{100 \text{ ms}} \quad + \quad \underbrace{111 \dots 1}_{100}$$

or
set/string

Option 2:

state: $dp(\text{value}, \text{alreadyPickedRow}[\dots])$



- 1: 1, 2, 4, 5
2: 0, 3, 4, 5
3: 1, 2, 3
4: 0, 3, 4, 4, 5
5: 0, 1, 1, 2, 3, 4, 5
6: 5
7: 0, 5
8: 0, 1, 2, 3, 4
9: 0, 1, 2, 2, 3

* DP memoization: `int [101][210]`

possible value of grid[i][j] 1 to 100 mark/string 0000000000 to 1111111111
0 to $2^{10} \approx 1024$.

