

JAGGED Array in 2D

	0	1	2	3	4
0	0	1	2	3	4
1	0	1	2		3
2	0	1	2	3	4

[3][5]
↑ uncertainty

	0	1	2	3	4
0	0	1	2	3	4
1	0	1	2	0	0
2	0	1	2	3	0

3x5

↓
2x2

1000 x 10
10,000 x 10,000

Def: Array with diff columns in an row, we call it
a Jagged Array

int arr[][] = new int [3] [];

✓ arr[0] = new int [5];

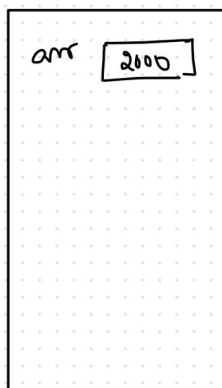
✓ arr[1] = new int [3];

arr[2] = new int [4];

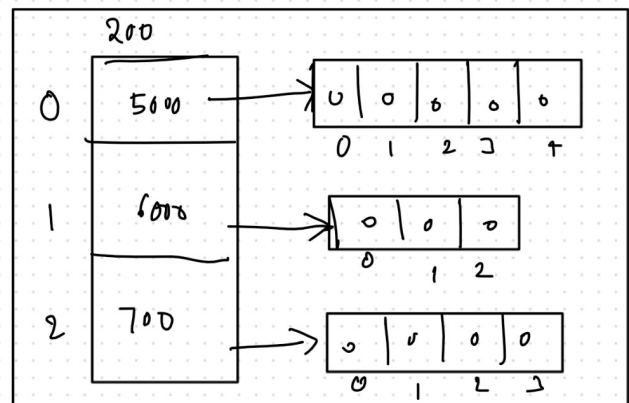
⑤

	0	1	2	3	4
0					
1	0				
2					

2D Jagged Array



Stack



S.C.T.S

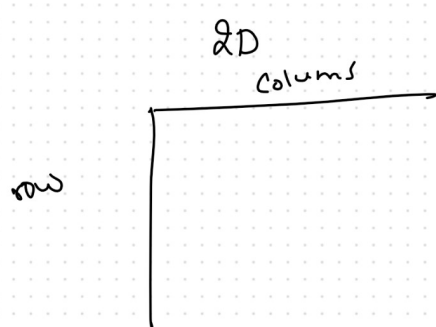
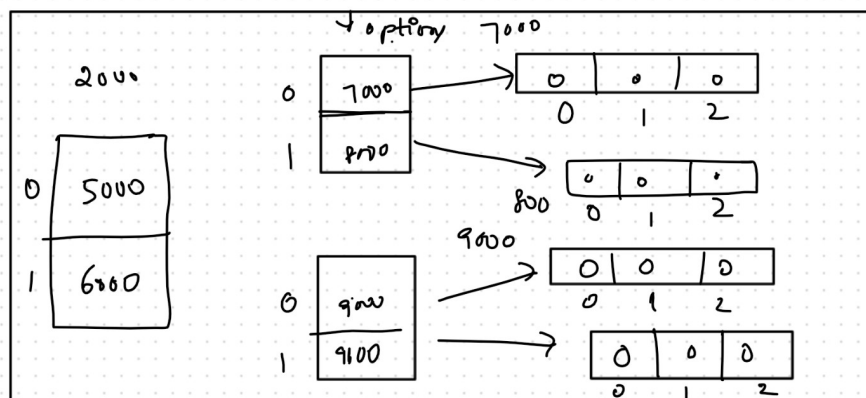
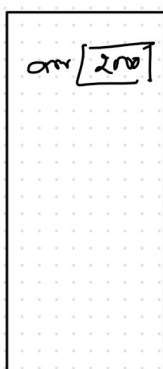
①

3D Array

School	Class room	Students
→ 0	[0] ↗ ↘	0 1 2
	[1] ↗ ↘	0 1 2
→ 1	[0] ↗ ↘	0 1 2
	[1] ↗ ↘	0 1 2

`int ar[][][] = new int[2][2][3]`
 ↑ ↑ ↑
 rows optm class
 2 2 3

`[42] = new int[2][2][2][1]`
 ↑ ↑ ↑ ↑
 2nd array

3D Tagged Array

<u>fixed</u> Schools	<u>not fixed</u> Class rooms	<u>not fixed</u> Students
0	0	0 1 2
	1	0 1
1	0	0 1
	1	0 1 2 3
	2	0 1 2

`int ar[][][] = new int[2][][]`
`ar[0] = new int[2][];`
`ar[1] = new int[3][];`
`ar[0][0] = new int[3];`
`ar[0][1] = new int[2];`
`ar[1][1]`