



VISUALIZING ARRAYS

Arrays May Have Different Shapes

ONE-DIMENSIONAL ARRAY

Looks like a list

```
int test[10];
```

Legal index values: 0 - 9

0	41	← test[0]
1	97	
2	91	
3	89	
4	89	
5	100	← test[5]
6	76	
7	83	
8	91	
9	79	



TWO-DIMENSIONAL ARRAY

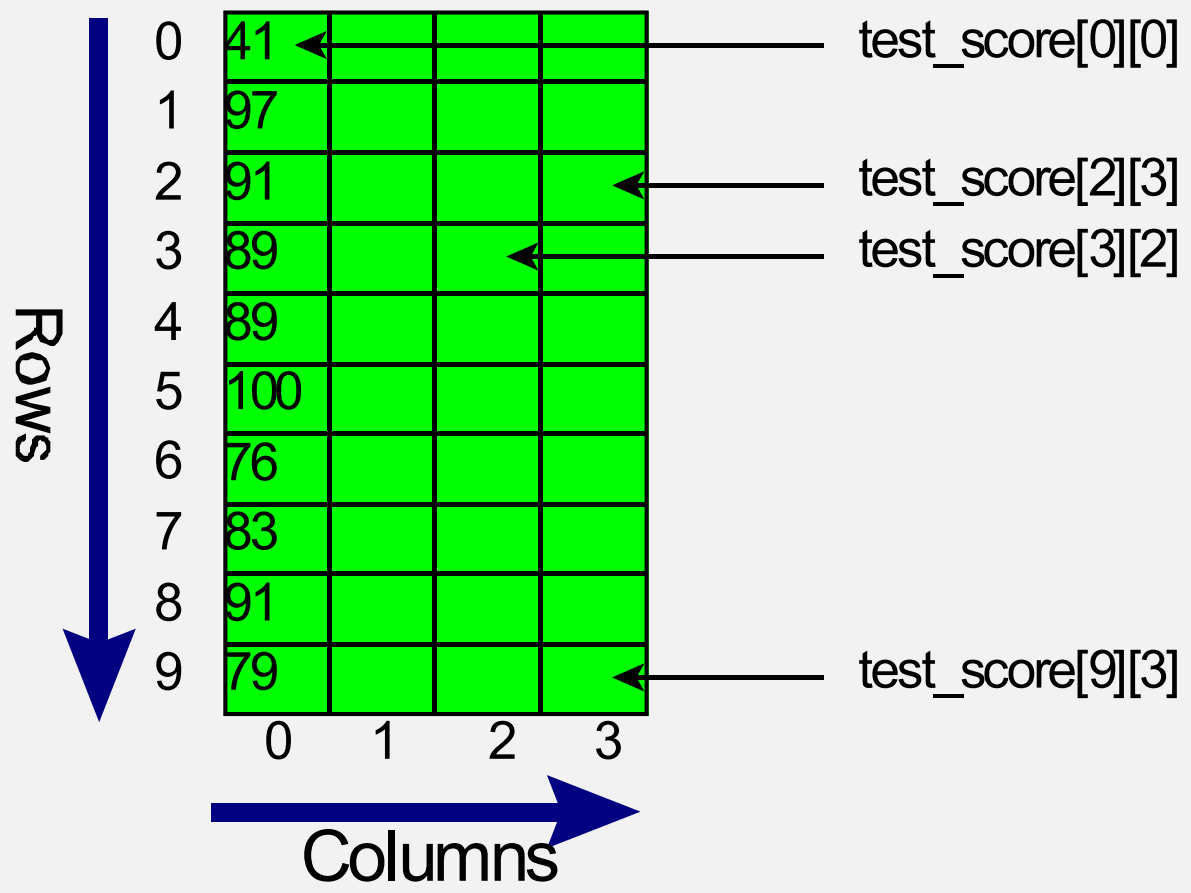
Looks like a table

```
float test_score[10][4];
```

Sizes are stated individually: row, column

Each dimension must be in its own brackets
(can't have a comma-separated list)

Legal index values: 0-9 and 0-3



THREE-DIMENSIONAL ARRAY

Looks like a box

```
double class_score[5][5][5];
```

Sizes are stated individually: row, column, layer

Legal index values: 0-4, 0-4, 0-4

