Accessing Elements of a Single–dimensional List

o A single-dimensional list is a list where elements are listed one after the other.
o Each element is allotted a unique number called index.

Example: A list containing multiples of 5 up to 20.

my_list = [5, 10, 15, 20]   my_list[0] = 5

my_list
| 5 | 10 | 15 | 20 |
  0   1   2   3

my_list[2] = 15

Negative Indexing

o **Accessing elements from the** last.

Example: A list containing multiples of 5 up to 20.

```
my_list = [5, 10, 15, 20]          my_list[-1] = 20
```

my_list

5	10	15	20
0	1	2	3
-4	-3	-2	-1

my_list[-4] = 5

Accessing Elements of a Multi-dimensional List

o **Multi-dimensional list** is a list containing another list.

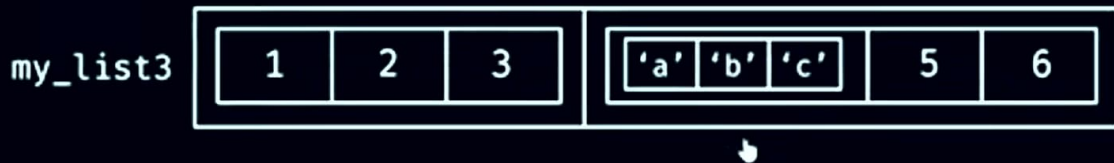**Example:** `my_list2 = [[1, 2, 3], "Neso", [4, 5, 6]]`

my_list2								
1	2	3		"Neso"		4	5	6
0	1	2				0	1	2
	0			1			2	

`my_list2[0][0] = 1`   `my_list2[2] = [4, 5, 6]`

HW: Consider the following list

my_list3 → [1 | 2 | 3] ['a' | 'b' | 'c' | 5 | 6]

How to access the value 'b' in the above list?

my_list3[1][0][1]

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