

Lab 2: List Slicing Exercise

The list slicing syntax:

```
sample_list[ start : end : step]
```

start is inclusive, end is exclusive.

The default start is 0, default end is the end, default step is 1.

Given the following list, please finish the exercises:

```
In [1]: sample_list = [0,1,2,3,4,5,6,7,8,9]
```

How can we get the first item?

```
In [2]: sample_list
```

How can we get the last item?

```
In [3]: sample_list
```

How can we get the first 3 items?

```
In [4]: sample_list
```

How can we get the last 3 items?

```
In [5]: sample_list
```

How can we get a copy of the list?

```
In [6]: sample_list
```

How can we get a copy of the list without first item?

```
In [7]: sample_list
```

```
Out[7]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

How can we get a copy of the list without last item?

```
In [8]: sample_list
```

```
Out[8]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```
In [ ]:
```

```
In [ ]:
```

Answers

⚠️ Answers below

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [9]: sample_list = [0,1,2,3,4,5,6,7,8,9]
```

How can we get the first item?

```
In [10]: sample_list[0]
```

```
Out[10]: 0
```

How can we get the last item?

```
In [11]: sample_list[-1]
```

```
Out[11]: 9
```

How can we get the first 3 items?

```
In [12]: sample_list[:3]
```

```
Out[12]: [0, 1, 2]
```

How can we get the last 3 items?

```
In [13]: sample_list[-3:]
```

```
Out[13]: [7, 8, 9]
```

How can we get a copy of the list?

```
In [14]: sample_list[:]
```

```
Out[14]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

How can we get a copy of the list without first item?

```
In [15]: sample_list[1:]
```

```
Out[15]: [1, 2, 3, 4, 5, 6, 7, 8, 9]
```

How can we get a copy of the list without last item?

```
In [16]: sample_list[:-1]
```

```
Out[16]: [0, 1, 2, 3, 4, 5, 6, 7, 8]
```