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Lesson 15: substrings

We get the substrings by using the strings and specifying the parts we want.

```
name=" Markis"
```

`name[a:b:c]` means that we will start in position `a`, go to position `b` (but not including `b`) and step by `c`. We can even go in negative direction.

If `a` is missing then 0 by default. If `b` is missing then the end of the string by default. If `c` is missing then 1 by default.

UNLESS `c` is negative like `-1` then

If `a` is missing then (end of string or `-1`) by default. If `b` is missing then the beginning of the string by default.

Homework for Lesson 15

Do the following using Python 3, but do it on paper first!!!!

```
Name="Markis"
Name[0:4]=Name[:4]=
Name[0:4:1]=Name[:4:1]
Name[1:4], Name[1:4:-1],
Name[4:1:-1]
Name[-2:2], Name[-2:2:-1],
Name [2:-2], Name[2:-2:-1]
Name[-4:5], Name[-4:], Name[-4:5:-1], Name[5:-4], Name[5:-4:-1], Name[:-4:-1], Name[:], Name[::-1]
1]
```

```
Name="abcdefgh"
Name[-2], Name[100], Name[-2:100], Name[-2:100:-1], Name[0:0], Name[:0], Name[:0:-1],
Name[4:10], Name[4:10:-1], Name[4,5], Name[10:4], Name[10:4:-1], Name[8:0], Name[8:0:-1],
Name[4:], Name[4::-1], Name[::-1], Name[-2:2], Name[-2:2:-1], Name[200:], Name[200::-1],
Name[200:-3:-1], Name[::-3], Name[-3:-7], Name[-3:-7:-1], Name[-3::-1], Name[::-7:-1], Name[::-7],
Name[-9:-8], Name[-9:-8:-1], Name[4:-10], Name[4:-10:-1], Name[::-1], Name[-3:0], Name[-3:0:-1],
Name[0:4], Name[0:4:-1]
```