How do I Teach a Computer to Count?

The Counting Pattern in Python

CSE

Counting in Python

Def: Counting is two things:

    1. Changing by a fixed amount
    2. Remembering where you are

Counting involves:

1. Addition
2. A variable

e.g.

```
c = 1       #start the count

c = c+1     #increment the count

c = c+1     #increment the count

print(c)    #show the count
```

Def: The Counting Pattern is a Python instruction that looks like this:

```
c = c+1
```

e.g.

```
1: c = 1
2: c = c + 1
3: c = c + 1
4: c = c + 1
5: c = c + 1
6: print (c)
```

e.g.

```
1: c = 1
2: for _ in range (4):
3:    c = c + 1
4: print (c)
```

e.g.

e.g.

```
1: p = 5
2: p = p + 2
3: P = p + 2
4: print (p)
```

```
1: k = 7
2: for _ in range (2):
3:    k = k - 1
4: print (k)
```