

# if (conditional) statements

```
v0 = 100
for i in range(v0):
    if i * i > v0:
        v1 = i - 1
        break
print('sr(' + str(v0) + ') = ' + str(v1))
```

The **for** loop is repeated ~~v0+1~~ times:  $i = 0$  in the 1<sup>st</sup> iteration,  $i = 1$  in the 2<sup>nd</sup> iteration, and  $i = \cancel{v0+1}v0-1$  in the final iteration.

The loop exits whenever **break** is encountered.

The program computes the positive integral part of  $\sqrt{100}$ .