



Exercise 29: What If

Here is the next script of Python you will enter, which introduces you to the `if-statement`. Type this in, make it run exactly right, and then we'll see if your practice has paid off.

```
1 people = 20
2 cats = 30
3 dogs = 15
4
5
6 if people < cats:
7     print "Too many cats! The world is doomed!"
8
9 if people > cats:
10    print "Not many cats! The world is saved!"
11
12 if people < dogs:
13    print "The world is drooled on!"
14
15 if people > dogs:
16    print "The world is dry!"
17
18
19 dogs += 5
20
21 if people >= dogs:
22    print "People are greater than or equal to dogs."
23
24 if people <= dogs:
25    print "People are less than or equal to dogs."
26
27
28 if people == dogs:
29    print "People are dogs."
```

1
2
3
4
MAIN



Follow

What You Should See

```
$ python ex29.py
Too many cats! The world is doomed!
The world is dry!
People are greater than or equal to dogs.
People are less than or equal to dogs.
People are dogs.
```

Study Drills

In this Study Drill, try to guess what you think the `if-statement` is and what it does. Try to answer these questions in your own words before moving on to the next exercise:

1. What do you think the `if` does to the code under it?
2. Why does the code under the `if` need to be indented four spaces?
3. What happens if it isn't indented?
4. Can you put other boolean expressions from Exercise 27 in

the `if-statement`? Try it.

5. What happens if you change the initial values for `people`, `cats` and `dogs`?

Common Student Questions

Q: What does `+=` mean?

The code `x += 1` is the same as doing `x = x + 1` but involves less typing. You can call this the "increment by" operator. The same goes for `-=` and many other expressions you'll learn later.

Video

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