

Topic: short-circuit evaluation.

category: "beware"

p boolean
q boolean

case 1

p || q

↑
true

don't need to know
value of q.

Java will not
investigate q.

run-time issue

case 2

p && q.

↑
false

does not matter
what value q has.

Java will not
inquire about q.

```
boolean isGrizzly() {...}
boolean isBlue() {...}
```

fact: either of these methods might change the state of the object (may change some instance variables)
that is, execution of those methods might have side-effects

beware (avoid) :
do not write : *o is reference to some object*

```
if (o.isGrizzly() || o.isBlue())
{ ...
}
```

what happens if o.isGrizzly() returns true?

write :

```
boolean p = o.isGrizzly();
boolean q = o.isBlue();
if (p || q)
{ ...
}
```