I think you ask the wrong question here. The correct question is does && have low precedence? And does
Java short circuit the evaluation (from left to right) as soon as it has an answer? The answer to both is yes.

So the division and (subsequent) relational comparison) are never attempted when count is 0 since the
predicate must be false.

It computes count != 0, gets false and skips to the else clause.

Joe

On Oct 1, 2009, at 8:51 PM, mrmchen@gmail.com wrote:

> Hi all.
>
> I am teaching AP Computer Science A for the first time and have the following questions...
>
> First, does Java always evaluate relational operators before equality and
> inequalities?
>
> If it does, shouldn't the following code give a compile error (division by
> 0) instead of short-circuiting and outputting Fail (which is what it does)
>
> In fact, shouldn't 2/count be attempted to be evaluated before anything
> else? After all division does take precedence over any relational operators
> right?
>
> int count = 0,MAX = 100;
> if (count != 0 && 2 / count > MAX)
> System.out.println ("Success");
> else
> System.out.println("Fail");
>