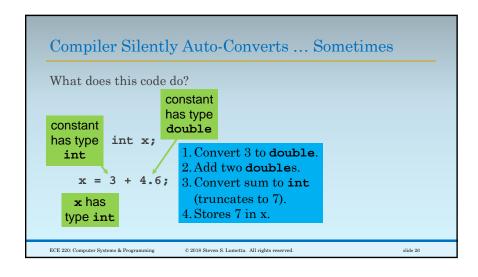
## Never Look Up Precedence Rules! Another task for you: Evaluate the C expression: 10 / 2 / 3 Did you get 1.67? Is it a friend's birthday? Perhaps it causes a divide-by-0 error? Or maybe it's ... 1? (10 / 2) / 3, as int If the order is not obvious, Do NOT look it up. Add parentheses!



## Be Careful with Auto-Conversion How does auto-conversion work? When there's a choice, into the "larger" type. What does that mean? Nothing obvious. Integers convert to floating-point. unsigned a = 10: What does the code int b = -20; to the left print? if (a + b < 0) { Nothing. printf ("ok"); As you'd expect? ECE 220: Computer Systems & Programming © 2018 Steven S. Lumetta. All rights reserved. slide 27

```
Be Careful with Auto-Conversion

Auto-conversion happens silently:
no errors, and no warnings.

For anything unclear (anything with a choice),
avoid auto-conversion, or use explicit
conversions
(example to
right).

unsigned a = 10;
int b = -20;
if (((int)a) + b < 0) {
   printf ("ok");
}

ECE 220 Computer Systems & Programming
```