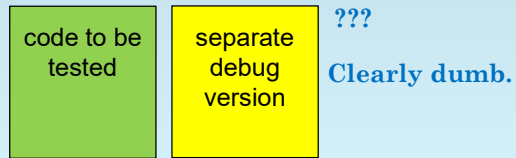


Extremely Bad Practice: Test Something Different

Option 3?

- Write and test a separate version,
- then throw it away and ship the original.



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Just as Bad, But Harder to Spot

What if we do it this way?

```
if (debug_mode) {
    separate debug version
} else {
    code to be tested
}
```

This code is never tested!

Less clear, but still dumb.

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A Little Help, Please?

I have a question...

How are bytes stored in memory?

For example,

- when a processor writes
- a 32-bit register
- to 8-bit-addressable memory,
- what happens?

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Two Choices for Endianness

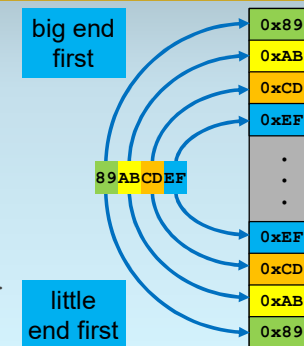
Here's a register.

Here's memory.

Which way are the bytes written?

The upper form is called **big endian**.

The lower form is called **little endian**.



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