Next set of notes will appear on class website locker tomorrow.

- Class Friday
- Test: March 26th (tentative)
  (some details to be confirmed)
assign even-parity = \sim A;

reg even-parity;
integer i;
always @(A)
begin
    even-parity = 1;
    for (i=0; i <= 31; i=i+1)
        if (A[i] == 1)
            even-parity = \sim even-parity;
end
After "read" in Synopsys

\[ A[0] \quad A[31] \]

After optimization

\[ A = x \text{-NOR tree} \]

e.g.

\[ A[21] \quad A[22] \quad A[23] \quad \text{etc.} \]
Four Bit Adder

![Diagram of Four Bit Adder]

Note: Hierarchy
4 copies of One Bit Adder
-each has different names
u1...u4
Net list
i.e. describing the nets by which the instances are connected
“Building stimulus waveforms”

```haskell
- #20 if (zero == 1)
  $display("Zero Test 1 Pass\n");
  else
  $display("Zero Test 1 FAIL\n");
```

Why?

1. No need to view waveform.
2. Tests my understanding of what the design should do?
3. Later on, tells me if I've introduced a bug.