

CS126 Precept 6

Meeting 9: returning HTree
assignment, TOY, and
combinational circuits

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More TOY

- Load and store indirect (most often used for arrays)
- Jump and link, and jump register (most often used for function calls)
- Shift left: zero filled, shift right: maintains sign

Making a Combinational Circuit

- Step 1: represent input and output signals with Boolean variables.
- Step 2: construct truth table to carry out computation.
- Step 3: derive (simplified) Boolean expression using sum-of products.
- Step 4: transform Boolean expression into circuit.