

Assignment 2: Due 9/17/19

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Find a suitable *state representation*, a *set of operations* and draw a *search tree* for the following problem:

Consider the purchase of a soft drink from a machine. As you put coins into the machine, it makes a transition from one state to another.

Let's assume that only quarters and nickels are acceptable to the machine and 55 cents are required for a drink.

- Set of operators.
 1. Add nickel (5 ¢).
 2. Add quarter (25 ¢).
- States
 1. Start state (0).
 2. Goal state (55).

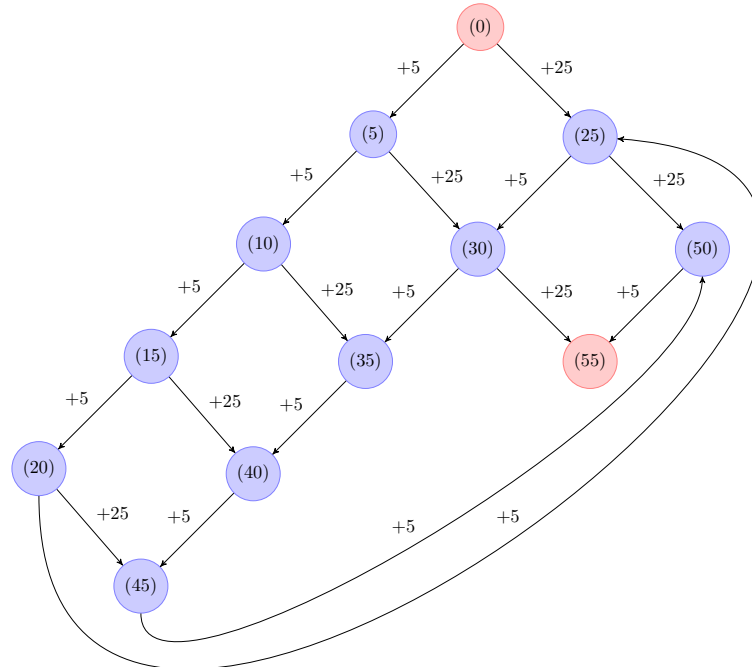


Figure 1: State space representation of drink machine, start and end nodes are red

