

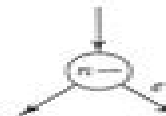
1. Welcome to CS381!
2. Reading for Lecture 1: D. Kozen *Automata and Computability*, Lecture 1.
3. The main message of the first lecture:

**Computability is not an invention of the 1930's but rather a natural ancient branch of intellectual activity**

**Definition.** *Abacus* - a stone age computer. A register is a roomy, numbered box capable of holding any number of stones: none or one or two or ..., so  $[n]$  will be the number of stones in box number  $n$ . The 'machine' is operated by a person who is capable of carrying out two sorts of operations



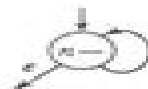
Add a stone to the pile in box  $n$



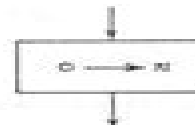
If box  $n$  is empty, come out on the arrow marked 'e', but if not, remove a stone and come out on the other arrow

A program can be specified by a flow chart which indicates the sequence in which this two sorts of operations are to be performed. Branch points are associated with elementary operations of the second sort. We shall refer to such a machine as an (infinite) *abacus*. Flow charts can be built up as in the following examples.

**Empty box  $n$**

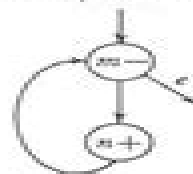


Flow chart

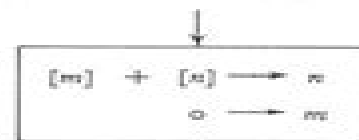


Block diagram

**Empty box  $m$  into box  $n$  (where  $m \neq n$ )**



Flow chart



Block diagram

# Kozen Automata And Computability Solution Manual

**Tao Wei**



**Kozen Automata And Computability Solution Manual:**

*Computer Books and Serials in Print* ,1985

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