

Write as more input strings as possible:

(1) the upper automata could recognized, but the one at bottom could not recognized.

(2) bottom could recognized, but upper could not.

If these input strings exist.

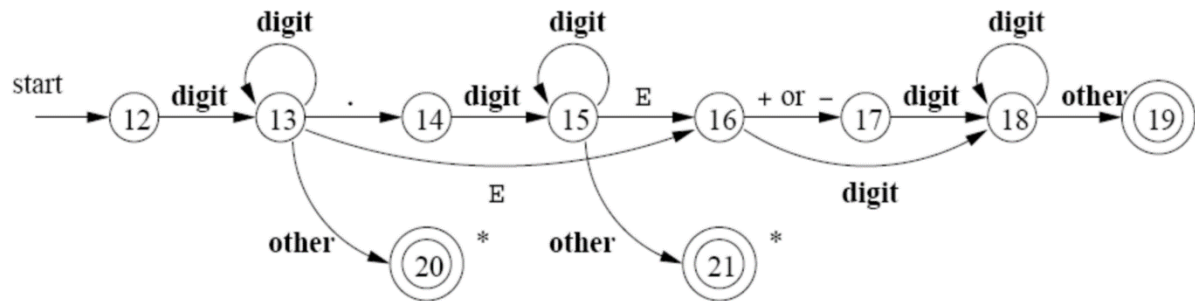
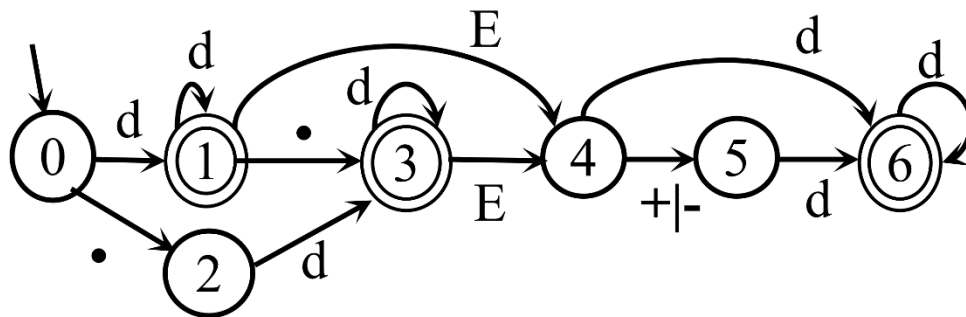


Figure 3.16: A transition diagram for unsigned numbers



String that can be accepted by the upper automata are given below:

**Case:1**

341

**Case:2**

341E+ or -2

341E + or -22

341E2

**Case:3**

341.10

341.10E+ or -2

341.10E+ or -22

341.10E2

String that can be accepted by the bottom automata are given below:

**Case 1:**

22

**Case 2:**

22.22

**Case 3:**

22.22E+|-2

22.22E+|-22

**Case 4:**

.2

.22

**Case 5:**

.22E+|-2

.22E+|-22

(1) Upper automata could recognize 341.10E2, but the one at bottom could not recognize.

Bottom automata needs a +/- sign following the exponential(E) like this 22.22E+|-2

(2) Bottom automata could recognize if the starting string is . (dot) but upper automata could not recognize

if the starting string is . (dot).

Case 4 and Case 5 of bottom automata couldn't be recognized by upper automata.