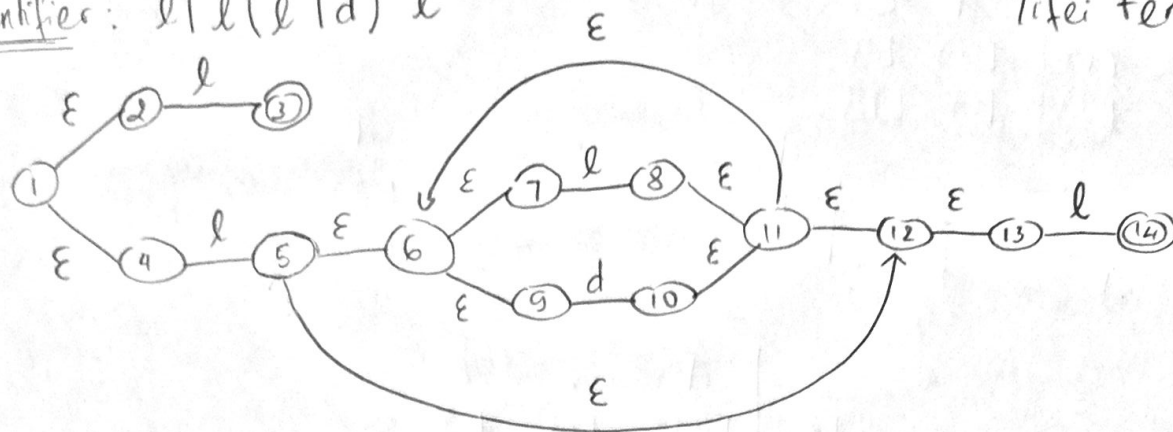


Identifiers: $l | l(l | d)^* l$

Frank Ngo
Yifei Feng



	l	d	ϵ
[1]	[]	[]	[2, 4]
[2]	[3]	[]	[]
[3]	[]	[]	[]
[4]	[5]	[]	[]
[5]	[]	[]	[6, 12]
[6]	[]	[]	[7, 9]
[7]	[8]	[]	[]
[8]	[]	[]	[11]
[9]	[]	[10]	[]
[10]	[]	[]	[11]
[11]	[]	[]	[6, 12]
[12]	[]	[]	[13]
[13]	[14]	[]	[]
[14]	[]	[]	[]

$$\epsilon\text{-closure}(1) = \{1, 2, 4\}$$

$$\epsilon\text{-closure}(2) = \{2\}$$

$$\epsilon\text{-closure}(3) = \{3\}$$

$$\epsilon\text{-closure}(4) = \{4\}$$

$$\epsilon\text{-closure}(5) = \{5, 6, 7, 9, 12, 13\}$$

$$\epsilon\text{-closure}(6) = \{6, 7, 9\}$$

$$\epsilon\text{-closure}(7) = \{7\}$$

$$\epsilon\text{-closure}(8) = \{8, 11, 6, 7, 9, 12, 13\}$$

$$\epsilon\text{-closure}(9) = \{9\}$$

$$\epsilon\text{-closure}(10) = \{10, 11, 6, 7, 9, 12, 13\}$$

$$\epsilon\text{-closure}(11) = \{11, 6, 7, 9, 12, 13\}$$

$$\epsilon\text{-closure}(12) = \{12, 13\}$$

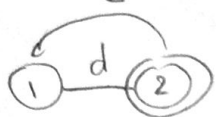
$$\epsilon\text{-closure}(13) = \{13\}$$

$$\epsilon\text{-closure}(14) = \{14\}$$

	l	d
[1, 2, 4]	[5, 6, 7, 9, 12, 13]	[]
[5, 6, 7, 9, 12, 13]	[6, 7, 8, 9, 11, 12, 13, 14]	[6, 7, 9, 10, 11, 12, 13]
[6, 7, 9, 11, 12, 13, 14]	[6, 7, 8, 9, 11, 12, 13, 14]	[6, 7, 9, 10, 11, 12, 13]
[6, 7, 9, 10, 11, 12, 13]	[6, 7, 8, 9, 11, 12, 13, 14]	[6, 7, 9, 10, 11, 12, 13]

	l	d
[1]	[2]	[0]
[2]	[3]	[4]
[3]	[5]	[4]
[4]	[5]	[4]

Integer : d^+



$$\epsilon\text{-closure}(1) = \{1\}$$

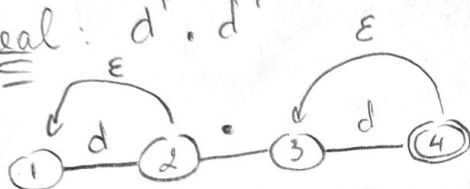
$$\epsilon\text{-closure}(2) = \{1, 2\}$$

	d	ε
[1]	[2]	[]
[2]	[]	[1]

	d
[1]	[1, 2]
[1, 2]	[1, 2]

	d
[1]	[2]
[2]	[2]

Real : $d^+ \cdot d^+$



$$\epsilon\text{-closure}(1) = \{1\}$$

$$\epsilon\text{-closure}(2) = \{1, 2\}$$

$$\epsilon\text{-closure}(3) = \{3\}$$

$$\epsilon\text{-closure}(4) = \{3, 4\}$$

	d	.	ε
[1]	[2]	[]	[]
[2]	[]	[3]	[1]
[3]	[4]	[]	[]
[4]	[]	[]	[3]

	d	.
[1]	[1, 2]	[]
[1, 2]	[1, 3]	[3]
[3]	[3, 4]	[]
[3, 4]	[3, 4]	[]

	d	.
[1]	[2]	[]
[2]	[2]	[3]
[3]	[4]	[]
[4]	[4]	[]