The LR(1) automaton

0
[S' -> .S EOF, EOF]
[S -> .AaAb, EOF]
[S -> .BbBa, EOF]
[A -> .bA, a]
[A -> .d, a]
[B -> .d, b]

1
[S' -> S.EOF, EOF]

2
[S' -> S EOF., EOF]

3
[S -> A.aAb, EOF]

4
[S -> Aa.Ab, EOF]
[A -> .bA, b]
[A -> .d, b]

5
[A -> d., b]

6
[A -> b.A, b]
[A -> .bA, b]
[A -> .d, b]

7
[A -> bA., b]

8
[S -> AaA.b, EOF]

9
[S -> AaAb., EOF]

10
[A -> b.A, a]
[A -> .BA, a]
[A -> .d, a]

11
[A -> d., a]

12
[A -> bA., a]

13
[A -> d., a]
[B -> d., b]

14
[S -> B.bBa, EOF]

15
[S -> Bb.Ba, EOF]
[B -> .d, a]

16
[B -> d., a]

17
[S -> BbB.a, EOF]

18
[S -> BbBa., EOF]

Edges:
- 0 → 1 on S
- 0 → 3 on A
- 0 → 13 on d
- 0 → 10 on b
- 0 → 14 on B
- 1 → 2 on EOF
- 3 → 4 on a
- 4 → 5 on d
- 4 → 6 on b
- 4 → 8 on A
- 6 → 5 on d
- 6 → 6 on b
- 6 → 7 on A
- 8 → 9 on b
- 10 → 11 on d
- 10 → 12 on A
- 14 → 15 on b
- 15 → 16 on d
- 15 → 17 on B
- 17 → 18 on a