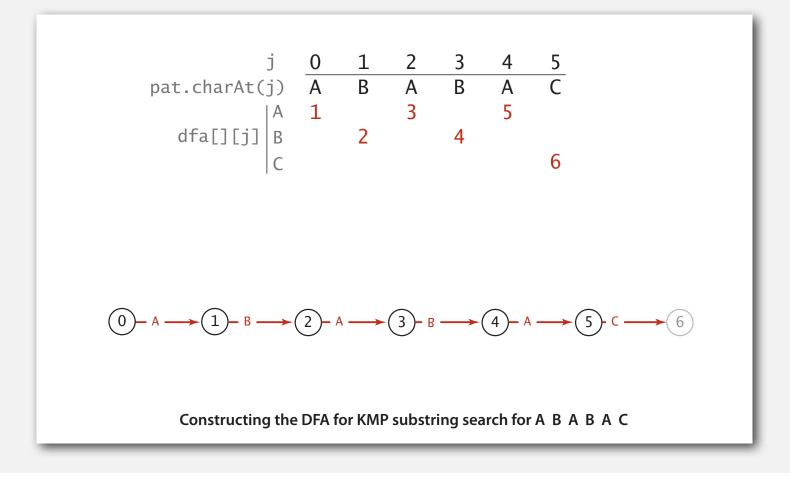
Knuth-Morris-Pratt

Include one state for each character in pattern (plus accept state).

- 0
- (1)
- (2)
- (3)
- (4)
- 5
- (6)

Match transition: advance to next state if c == pat.charAt(j).

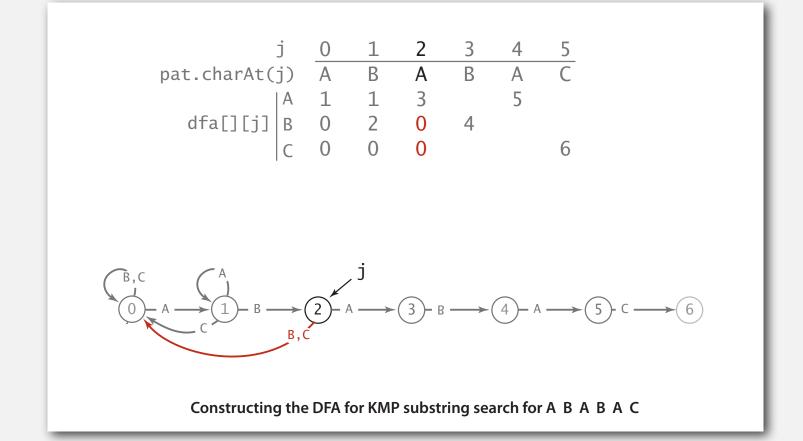


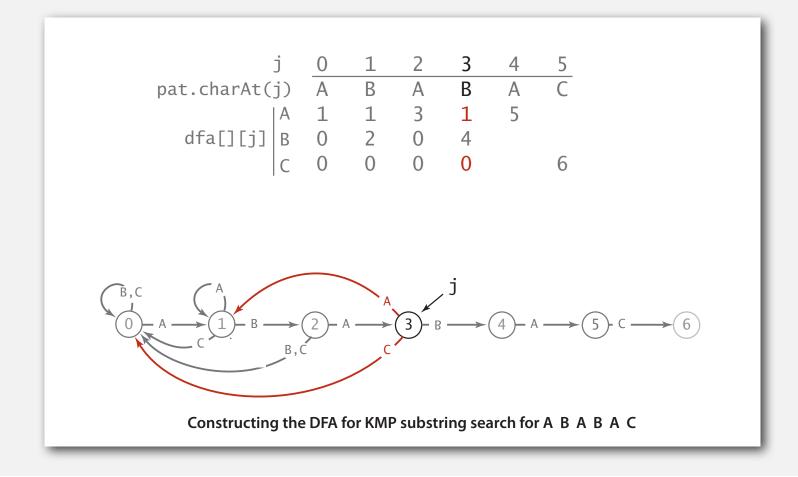
Mismatch transition: back up if c != pat.charAt(j).

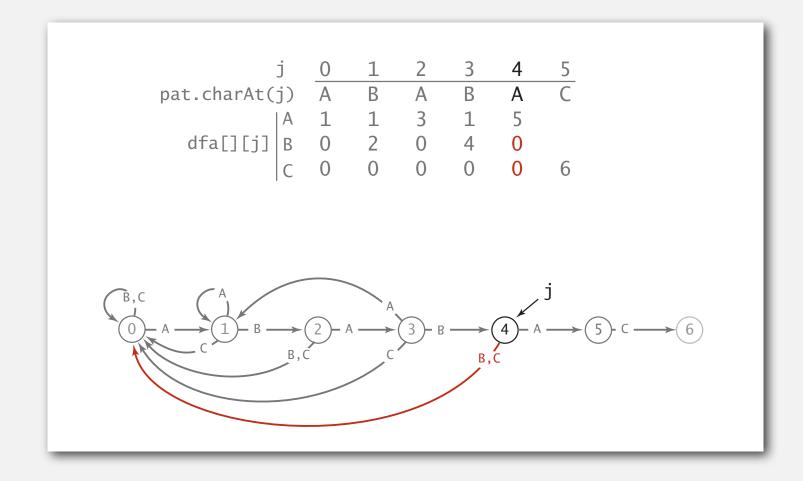


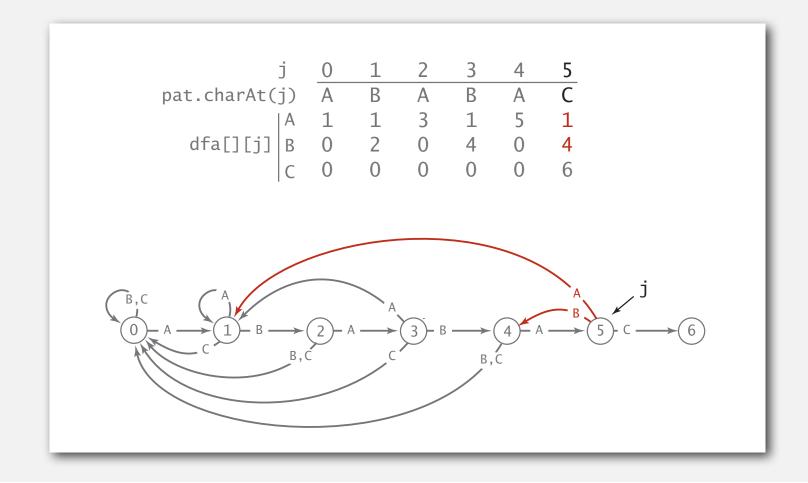
Mismatch transition: back up if c != pat.charAt(j).

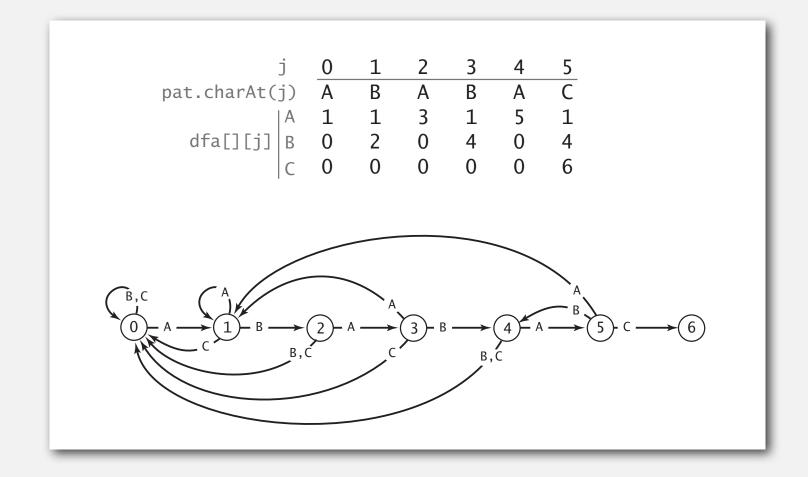












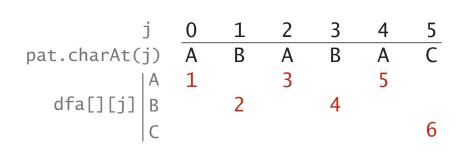
Knuth-Morris-Pratt

Include one state for each character in pattern (plus accept state).

- (0)
- (1)
- (2)
- (3)
- $\left(4\right)$
- (5)
- (6)

Match transition. For each State j, dfa[pat.charAt(j)][j] = j+1.

first j characters of pattern now first j+1 characters of have already been matched pattern have been matched





Mismatch transition.

