1. DLP game: 
$$bb \rightarrow c|a$$
  
 $cc \rightarrow d|b$   
 $dd \rightarrow e|c$   
 $ee \rightarrow a|d$ 

DDB search:

2 traditional search: aabcdeabcdbcdeabcdee aabodeabod bodeabodd bbcdeabcdbcdeabcdee bbcdeabcdbcdeabcdd bbcdeabcdbcdeabcdd (transition) aabedeabedbedeabe c ccdea bcdbcdea bodee bbcdeabcdbcdeabcc (bbcdeabcdbcdeabcc) acabadeabcdbcdeabb (transition) With transition table:  $= 10 \times 10 = 100$ without transition table: = 200 7

3. dp, d6, e11, e7, m14, m11, m9