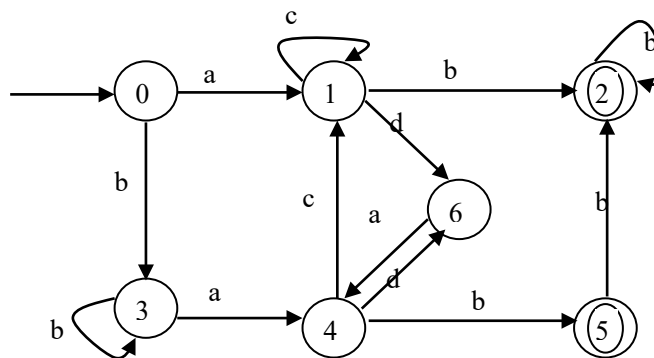一、**Mark each statement *true* or *false***

1、Both DFA and NFA can recognize regular set.

2、Intermediate Code generation depends on detailed information about the target architecture, and doesn't care the characteristics of the source language.

3、A display is a data structure that may be used as a alternative to static links for maintaining access to the variables.

二、**Single Choice   (10 cents)**

1、the output of the scanner is:

   [A] token   [B] syntax tree   [C] target code   [D] intermediate code

2、Which grammar parser below is the most powerful?

   [A] LL(1)   [B] LR(0)   [C] SLR   [D] LR(1)

3、the parsing method   of   YACC   is (   )

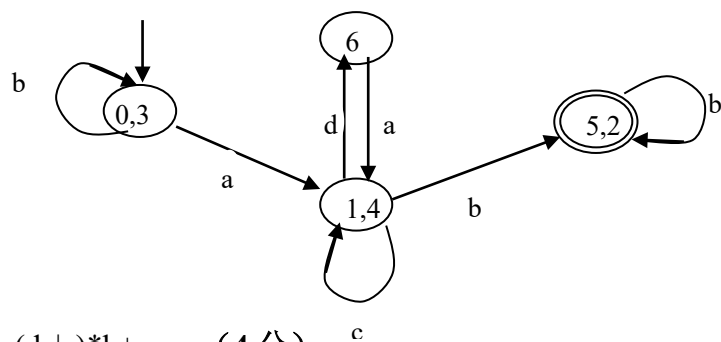   [A] LALR(1)   [B]LR(1)   [C] SLR(1)   [D] LL(1)

三、**Questions**

1、Apply the state minimization algorithm to the following DFA. Then give a regular expression to describe this language.   (10 cents)

Answer:

（最小 DFA 给 6 分）

b*a (da|c)*b+   （**4 分**）