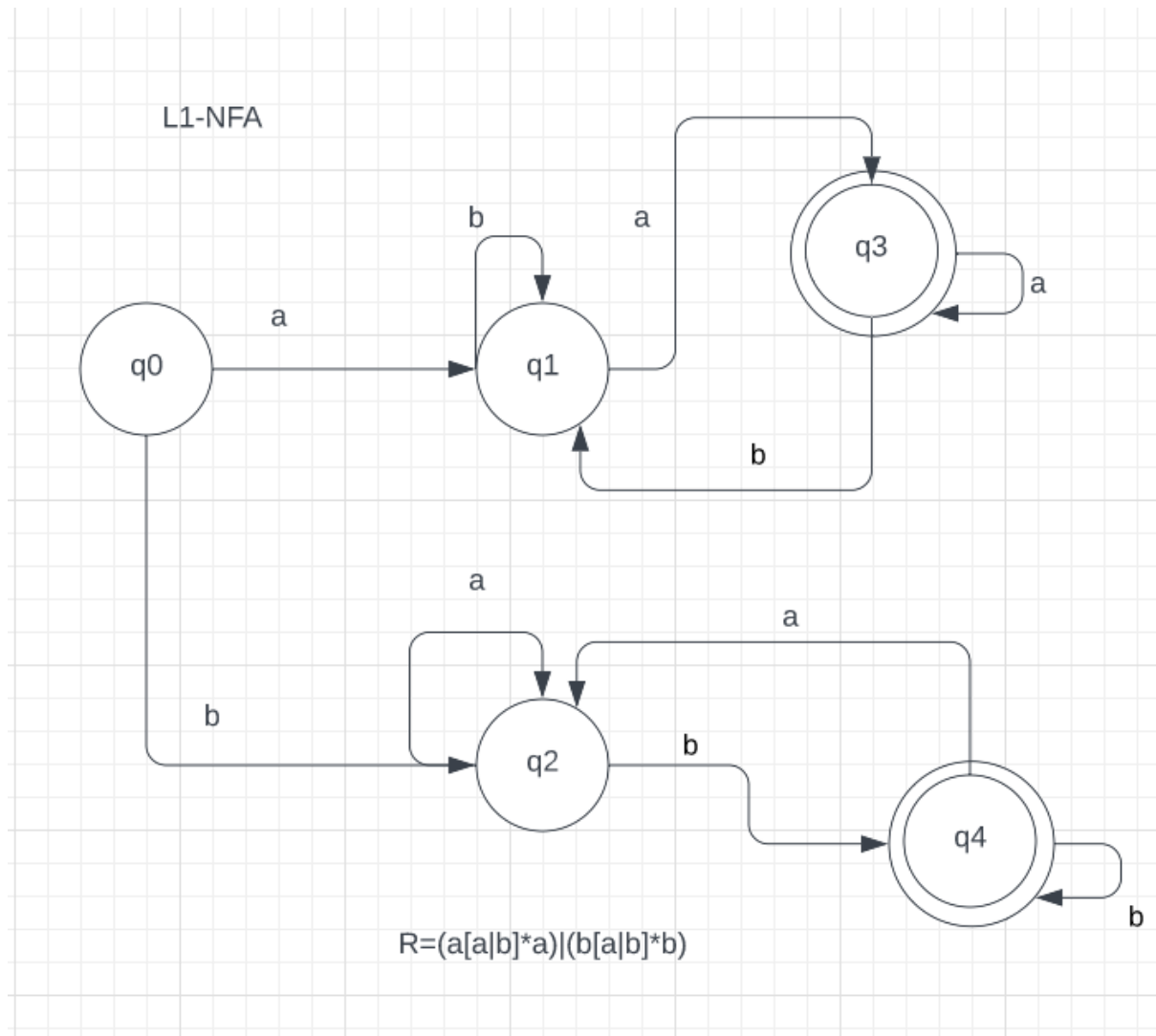
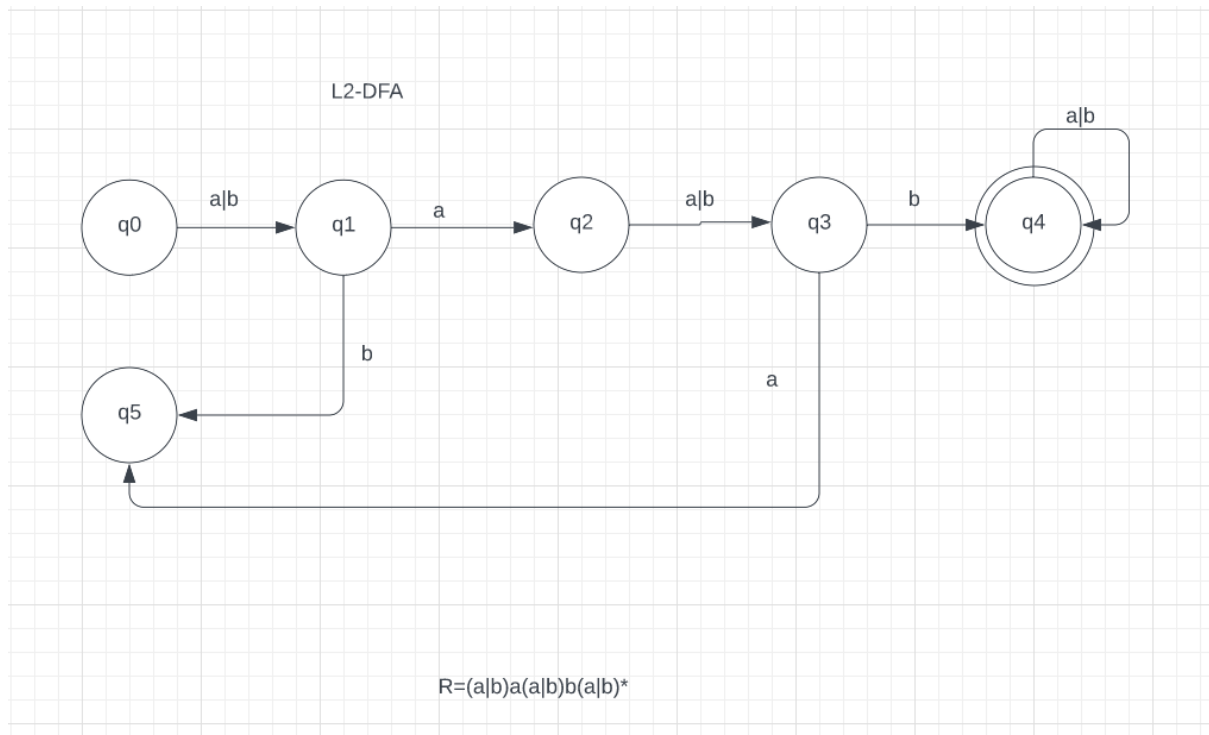


$L1 = \{w \in \{a, b\}^* \mid w \text{ begins and ends with the same symbol} \}$



$L2 = \{w \in \{a, b\}^* \mid w \text{ has an } a \text{ in the second position and a } b \text{ in the fourth position}\}.$



CODE

```

/** Definition Section has no variable
which can be accessed inside yylex()
and main() */
%{

%}

/** Rule Section has three rules, first rule
matches with capital letters, second rule
matches with any character except newline and
third rule does not take input after the enter */

L1  ("a"[a|b]*"a") | ("b"[a|b]*"b")
L2  ([a|b]"a"[a|b]"b"[a|b]*)

%%
{L1}|{L2}
{printf("YES!\n\tYES!\n\t\tYES!\n\t\t\tYES!\n\t\t\t\tYES!\n"); return
0;}

. {printf("NO!\n\tNO!\n\t\tNO!\n\t\t\tNO!\n\t\t\t\tNO!\n"); return 0;}
%%

/** Code Section prints the number of

```

```
capital letter present in the given input***/  
int yywrap(){}  
int main(){  
    yylex();  
}
```