Experiment 2

Aim: Write a program to find ϵ-closure of all states of any given NFA with ϵ transitions

Description

Write a C program which finds the ϵ-closure of an NFA. The program must take the states and transitions as input and find the epsilon closure.

ϵ-closure

The ϵ closure of a state is the set of all states (including itself) which can be reached from the state with ϵ-moves only (i.e., without consuming any input).

Sample Output

```
CDLab>./a.out
Enter the number of alphabets?
2
NOTE:- [ use letter e as epsilon]
NOTE:- [e must be last character ,if it is present]

Enter alphabets?
1
e

Enter the number of states?
3

Enter no of transition?
4
NOTE:- [Transition is in the form-> qno alphabet qno]
NOTE:- [States number must be greater than zero]

Enter transition?
1 e 2
2 e 3
3 e 3
2 1 2

e-closure of states.....
_____

e-closure(q1): {q1,q2,q3,}
e-closure(q2): {q2,q3,}
e-closure(q3): {q3,}CDLab>
```