

TUTORIAL - 2

A.1       $\text{switch}(\text{inputvalue})$

{       $\text{case } 1: b = c^k d; \text{ break};$

default:  $b = b++ ; \text{ break};$

A.1      26 tokens

A.2      Regex for -

a  $\rightarrow$  Identifiers in C language :

$[\text{a-zA-Z}]^* [\text{a-zA-Z0-9}_-]^*$

b  $\rightarrow$  Binary string in which 0 is always followed by atleast a single 1  
 $(1 + (01))^*$

c  $\rightarrow$  IP addresses

~~10.9.10.9~~  $[0-255]. [0-255]. [0-255]. [0-255]$

d  $\rightarrow$   $[0-9]^*$

e  $\rightarrow$   $[\text{a-zA-Z0-9}_-]^* @ [\text{a-zA-Z}]^*.com$

g  $\rightarrow$   $[1-9]^*(0+5)$

h  $\rightarrow$   $[(\text{a-zA-Z})(\text{a-zA-Z})(\text{a-zA-Z})(\text{a-zA-Z})(\text{a-zA-Z})]^*$

f  $\rightarrow$   $([\text{F}]) + ([\text{A-Z}]^*) + ([\text{a-z}]^*)$   
 $(([\text{+ . , }]) + (\text{a-zA-Z})^*)$

Q.3 |  $a(ab)^*a \rightarrow \text{RegEx}$

NFA :

