

**CS 302**

*10 December, 2019*

**QUIZ 9**

***Duration : 15 minutes***

***Do not forget to write your name on your paper !***

***QUESTION (10 pts)***

*Construct a TM,  $M$  graphically or in tabular notation such that :*

*$(s, \underline{\#} w) \vdash\!\!\vdash_M (h, \underline{\#} w \# w)$  where  $w \in \Sigma_0^*$  and  $h$  denotes a halt state*