Automata and Formal Languages Quiz

姓名:

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Problem Let $G = (V, \Sigma, R, S)$ be the following grammar. $V = \{S, T, U\}; \Sigma = \{0, \#\}; and R \text{ is the set of } I$

rules:

 $S \to T \mid U$ $T \to 0T \mid T0 \mid \#$

 $U \rightarrow 0U00 \mid #$

1. Describe L(G) in natural language.

2. Is L(G) regular? Prove your assertion.