获得的答案

To show the Turing machine with left reset, recognize the class of Turing recognizable class of language.

- It must be shown that it can simulate ordinary Turing machine.
- \bullet Let ${\it M}$ be an ordinary Turing machine and $\,{\it M}_{\it L}\,$ be the Turing machine with left reset.
- $\emph{M}_{\emph{L}}$ simulates \emph{M} in the following way.
- When ${\it M}$ makes a right transition then ${\it M}_{\it L}$ follows it in the same way as ${\it M}$ do.
- When M makes a left transition with symbol a, b in M, M_L replaces it with A or B respectively. So, the alphabet set $\sum M_L = \sum MU\{A,B\}$ and does a left RESET.
- Shifts all content of the tape by one position to the right for all symbols other than $\{A, B\}$.

The above process is repeated until all content of the tape are shifted to the right and does the following.

- M_L does a RESET again.
- · All right transitions are checked.
- Whenever it reaches to some $\{A, B\}$, it works in the same way as M does.