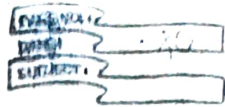


Post Machines



Defⁿ - PM is collection of 5 things:

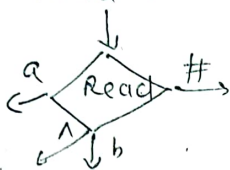
1) Alphabet Σ of i/p letters, $\Sigma = \{a, b\}$ generally.

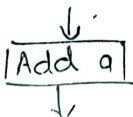
Pls special symbol $\#$.

2) A linear storage locⁿ, store or queue, which initially contains i/p str. To read a i/p letter, leftmost char. gets removed. A char. can be added at right end.

Alphabet Γ is store alphabet.

3) Read states, PM's are deterministic, \therefore no 2 edges have same label.



4) Add states,  b, # etc.

5) Unentangle start state, some halt states Accept, Reject.

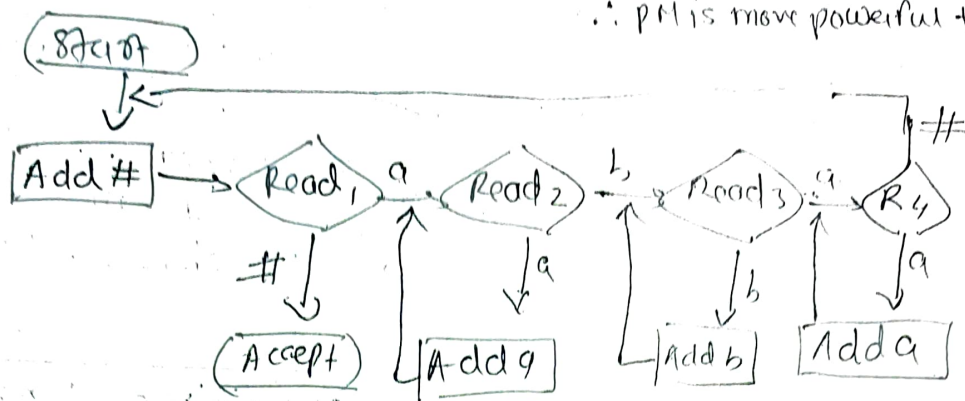
The moment we accept i/p str., store could contain anything.

PM is a lang. recognizer or acceptor.

In case of non-deterministic PM, NPM,

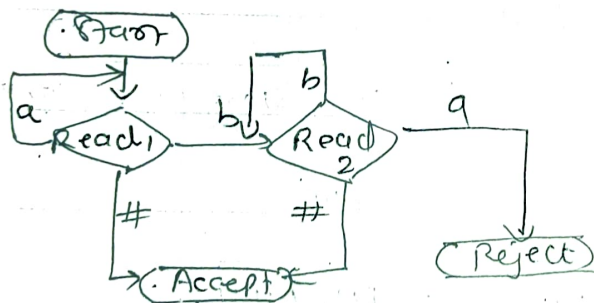
NPM = PM, as a lang-acceptor.

ex. lang. $\{a^n b^n a^n\}$. this is non-CL, No PDA for this. \therefore PFL is more powerful than PDA.

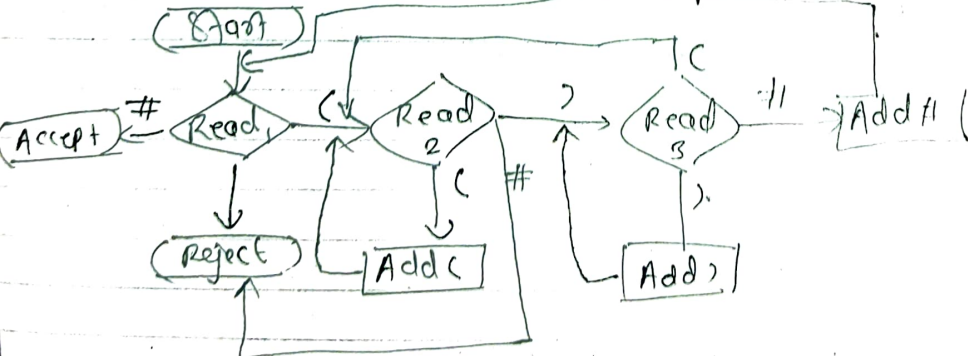


Th^m - Any lang. that can be accepted by a PM (TM) can be accepted by some TM (PM).

ex. lang. $\{a^n b^m \mid n \geq 0, m \geq 0\}$



ex. check well-formedness of parenthesis



similar to $a^n b^n$.

than

is.
han PDA..

ex. Palindrome

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