A 2 stack-pushdown Automata is similar to a PDA, but it has two stacks instead of one. In each transition, we must denote the pop and push action on both stacks.

A machine using two pushdown accepts the recursively enumerable language. We use a stack PDA to (build) non- Context free language

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eg.  $L_1 = \{a^{n}b^{n}c^{n}|n>, 1\}$   $L_2 = \{a^{n}b^{m}a^{n}b^{m}|m,n>, 1\}$  $L_3 = \{ww^{k}|w\in\{a,b\}^{+}\}$ 

· 大石 (4.4)

- 1) A 2 stack PDA is similar to PDA, but it has two stacks instead of one.
- a) for each transition, we can (Push, Pop, No change) on both stacks.
  - 3) Both Stacks works independently.
- eg. Design a 2 stack PDA Jor

  L= {a<sup>n</sup> b<sup>n</sup> c<sup>n</sup> | n >, 13

  L= {abc, aabbcc, aaabbbccc --- 3

Stacki

stack 2

 $S(90, a, 201, 700) \rightarrow (21, 0.201, 200)$   $S(91, a, a, 201) \rightarrow (91, 0.00, 200)$   $S(91, b, a, 200) \rightarrow (91, 0.00, 200)$   $S(91, a, 201, a) \rightarrow (91, 201, a)$  $S(91, a, 201, a) \rightarrow (91, a)$