School Cheats

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937434

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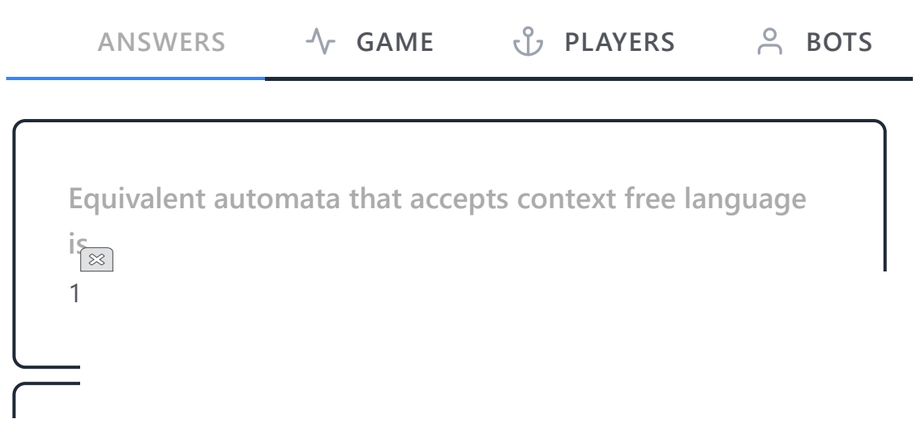


Palindrome string is a regular language

1. False

A context free grammar G is in Chomsky normal form if every production is of the form

1. A → BC or A → A

The context free grammar S → SS | 0S1 | 1S0 | ε generates

1. Equal number of 0's and 1's

A CFG consist of the following elements:

1. all of the mentioned

The instantaneous PDA is has the following elements

1. State
2. Unconsumed input
3. Stack content

The symbol for move in the PDA is

1. Turnstile

State true or false:Statement: Every context free grammar can be transformed into an equivalent non deterministic p

1

PDA is more powerful than

1. Finite automata

---

The push down automata indicate the acceptance of input string in terms of

1. Empty stack
2. Final state

---

A context free grammar G is in Chomsky normal form if every production is of the form

1. A → BC or A → A

---

The transition a Push down automaton makes is additionally dependent upon the:

1. Stack

---

A PDA machine configuration (p, w, y) can be correctly represented as:

1. (current state, unprocessed input, stack content)

---

A DPDA is a PDA in which:

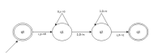
1. No state p has two outgoing transitions

---

V

c

1. JFLAP



Which of the following option resembles the given PDA?

1. {0n1n|n>=0}

Which of the following are the actions that operates on stack top?

1. All of the mentioned

State true or false:Statement: The operations of PDA never work on elements, other than the top.

1. true

Push down automata accepts _____ languages.

1. Type 2

L = { $a^i b^j c^k d^l$| i=k or j=l } is a context free language.

1. True

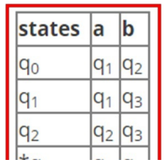
L={$a^n ww^R a^n$ : n ≥ 0, w ε {a,b}*}Is the language if context free or not?

1. True

L

free or not?

1. True



| states | a | b |
|---|---|---|
| $q_0$ | $q_1$ | $q_2$ |
| $q_1$ | $q_1$ | $q_3$ |
| $q_2$ | $q_2$ | $q_3$ |

This table represents _____

1. Transition Table


The marked Grammar belongs to _____

1. Type 2

When the grammar is said to be an ambiguous grammar?

1. More than one LMD or RMD

Contet Free Grammar is a ____ grammar

1. Type 2

Instantaneous description of PDA is represnted by ___ tuples.

1. 3

1[illegible]very Regular Language is a Context Free language

2

1

A PDA cannot accept all regular languages.

1. False

If (q,a,X) is non empty then (q, ε, X)_____ in order to be a deterministic PDA.

1. should be empty

_____ impose certain restrictions on the productions in CFG.

1. Normal Forms

Given Grammar G:S->aA, A->a|A, B->B The number of productions to be removed immediately as Unit productions:

1. 2

Condition for a CFG to be in CNF i)A->BC ii)A->a iii)A->aA1A2..An

1. i and ii

CFG is closed under _____

1. Union and Concatenation

I
r

parts

1. 5

The value of n if turing machine is defined using n-tuples

1. 7

A language L is said to be _____ if there is a turing machine M such that L(M)=L and M halts at every point.

1. decidable

The language accepted by a turing machine is called _____

1. recursive and recursively enumerable

An algorithm is called efficient if it runs in _____ time on a serial computer.

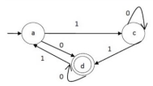
1. polynomial

A problem is called _____ if its has an efficient algorithm for itself.

1. tractable

Recursive languages are also known as:

1. decidable



Which of the following will the given DFA accept?

1. 10010010

Number of states required to construct NFA that accepts string that ends with 00 or 11.

1. 4

Number of states required to construct DFA that accepts even no. of.0's and odd no.of.1's is

1. 2

Represent the language over{0,1} containing all possible combinations of 0's and 1's but not having two consecutive 0's.

1. (0+ε).(1+10)*

Represent the language over{0,1} not containing 101 as substring

1. 0*(1+0)*110*

1. If L1, L2 are regular and op(L1, L2) is also regular, then L1 and L2 are said to be_____ under an operation op.

1. closed

C

1. S->A1B, A->0A|ε, B->0B|1B|ε

Find the language of the given CFG.S->0S0|1S1|ε

1. L={ WW^R| w={0,1}* }

S->aSbS|bSaS|ε.Whether the string aabbabb is derived using the given grammar.

1. False

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