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1. A \_\_\_\_\_ is a language that can be recognized by a Deterministic Pushdown Automata (DPDA)

deterministic PDA (DPDA)

nondeterministic PDA (NPDA)

stochastic PDA

--->> deterministic context-free language

2. Any language generated by an unrestricted grammar is \_\_\_\_\_

--->> recursively enumerable

non-recursively

delimiter recursive

recursively unsolvable

3. \_\_\_\_\_ is the machine for decidable languages.

Allocator machine

Urilitic machine

--->> Turing machine

Hydrolic machine

4. A formally stated problem is \_\_\_\_\_ if no Turing machine exists to compute the solution.

workable

solvable

deterministic

--->> unsolvable

5. \_\_\_\_\_ states a problem and gives a candidate solution, asking if the solution solves the problem.

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--->> Decision problem

Solution-return

Candidature problem

6. The basic idea of \_\_\_\_\_ is to parse a string  $w$ , generate all strings in  $L$  and see if  $w$  is among them.

inherently ambiguous language

derivation step

stochastic language

--->> exhaustive search parsing

7. \_\_\_\_\_ are tree representations of derivations.

--->> Syntax trees

Root trees

Binary trees

Fig trees

8. Any string of a context-free language has a \_\_\_\_\_ derivation.

negative

positive

rightmost

--->> leftmost

9. The context-free languages are closed under the formation of the following, except \_\_\_\_\_

--->> Equivalence

Union

Concatenation

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10. The \_\_\_\_\_ of a context-free language L1 and a regular language L2 is context-free.

--->> intersection

union

cardinality

complement

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