



Constraint Satisfaction Problems

0 favorites

5 plays

45 players


A private kahoot

Questions (10)

1 - Quiz

A Satisfiability (SAT) Problem is a 2-SAT Problem IF it has

30 sec

-  Boolean variables ✗
-  At most 2 literals ✓
-  At most 2 Clauses ✗
-  Satisfiable formula ✗

2 - True or false

 $(A \wedge \neg B) \vee (\neg A \wedge C)$ is a Conjunctive Normal Form?

30 sec

-  True ✗
-  False ✓

3 - Quiz

CSP with n Variables and Domain Size d will give you a time complexity of

30 sec

-  $O(nd)$ ✗
-  $O(n^d)$ ✗
-  $O(n!)$ ✗
-  $O(d^n)$ ✓

4 - True or false

For a constraint graph, variables are links and constraints are nodes. True/False?

20 sec

-  True ✗
-  False ✓

5 - Quiz

One of these is NOT a Variable and Value Ordering method of Backtracking Search





30 sec

-  Minimum remaining values ✗
-  Arc Consistency ✓
-  Least constraining value ✗
-  Degree heuristic ✗

6 - Quiz

Given X is source and Y is the target node, which of this best describe Arc Consistency?

60 sec

-  Every value $x \in X$ there is some allowed $y \in Y$. ✓
-  X and Y nodes must NOT be neighbours. ✗
-  Arc Consistency is the same as the forward checking. ✗
-  Every value $x \in X$ all value $y \in Y$ is consistent. ✗

7 - Quiz

Which ONE of these is a Binary Constraint









30 sec

- | | | |
|--|-------------------|---|
|  | $P \neq 0$ |  |
|  | $P = 1$ |  |
|  | $P \neq Q$ |  |
|  | $P \neq Q \neq R$ |  |

8 - Quiz

One of these is the Fastest Way to Solve CSP problem

30 sec

- | | | |
|--|---------------------------------|---|
|  | Problem Structure Decomposition |  |
|  | Arc Consistency |  |
|  | Forward Checking |  |
|  | Degree heuristic |  |

9 - True or false

A Heuristics Search Solves CSPs faster by iteratively making a random guess









30 sec

- | | | |
|--|-------|---|
|  | True |  |
|  | False |  |

10 - Quiz

Which ONE of these is NOT a quality of a Heuristics Algorithm

60 sec

- | | | |
|--|--|---|
|  | It is like a Random Walk |  |
|  | Simulated Annealing is a Heuristics |  |
|  | Goal test evaluation is not necessary |  |
|  | It has no guarantee to find a solution |  |