

CS433 Q 1: Consider CNF formula ($\neg p1 \lor p2$) \land ($\neg p1 \lor p3 \lor p5$) \land ($\neg p2 \lor p4$) \land ($\neg p3 \lor \neg p4$) \land ($p1 \lor p5 \lor \neg p2$) \land ($p2 \lor p3$) \land ($p2 \lor \neg p3 \lor p7$) \land ($p6 \lor \neg p5$). Which of the following holds in a RUN of DPLL after only decision p2 = 0?

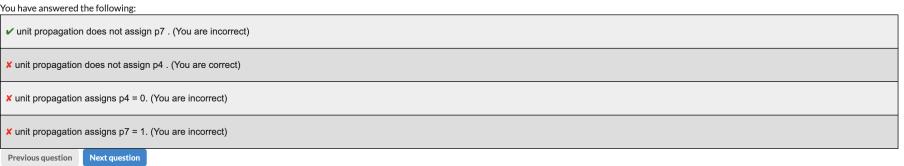
☐ unit propagation does not assign p7 .
☐ unit propagation does not assign p4 .
☐ unit propagation assigns p4 = 0.
☐ unit propagation assigns p7 = 1.
Answer

 $\label{thm:continuous} \textbf{Note: please be careful before submitting the answer. You will not be able to change the answers.}$



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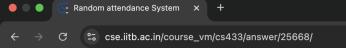


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CS433 Q 2: Which of the following hold under partial assignment $\{p1 \rightarrow 0, p2 \rightarrow 1, p3 \rightarrow 0\}$?

□ (¬p2 ∨ p1) is true	
☐ (p4 ∨ p2) is true	
☐ (¬p4 ∨ ¬p1) is true	
☐ (p1 ∨ p5 ∨ p4) is a unit clause	
Answer	

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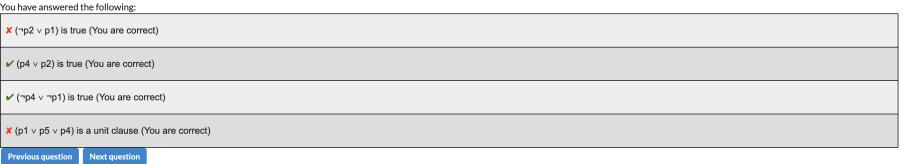


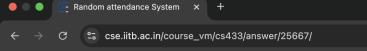




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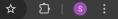
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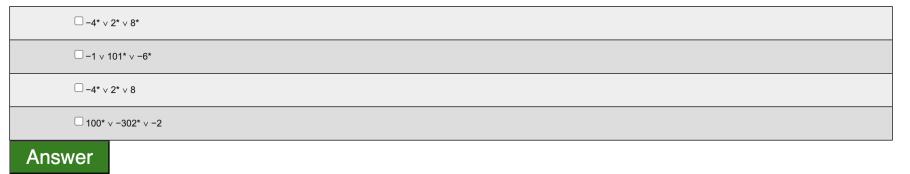




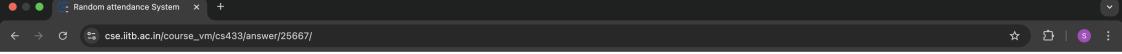




CS433 Q 3: Under assignment [-4, 2, -1, 6, 100, -302], which of the following clauses have correct state of 2-watched literals? (* indicates the watched literal.)

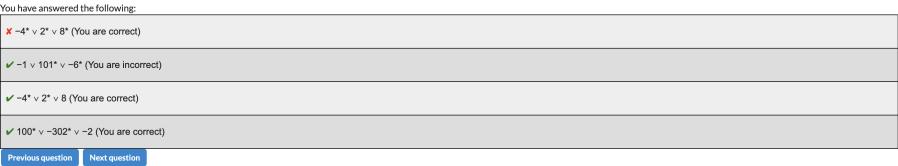


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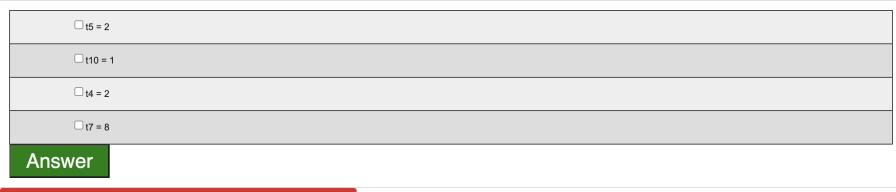
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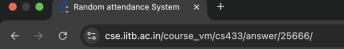




CS433 Q 4: Which of the following are correct ti of Luby restart sequence?



Note: please be careful before submitting the answer. You will not be able to change the answers.











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