

CS433 Q 1: Consider CNF formula  $(\neg p_1 \vee p_2) \wedge (\neg p_1 \vee p_3 \vee p_5) \wedge (\neg p_2 \vee p_4) \wedge (\neg p_3 \vee \neg p_4) \wedge (p_1 \vee p_5 \vee \neg p_2) \wedge (p_2 \vee p_3) \wedge (p_2 \vee \neg p_3 \vee p_7) \wedge (p_6 \vee \neg p_5)$ . Which of the following holds in a RUN of DPLL after only decision  $p_2 = 0$ ?

- ☐ unit propagation does not assign  $p_7$ .
- ☐ unit propagation does not assign  $p_4$ .
- ☐ unit propagation assigns  $p_4 = 0$ .
- ☐ unit propagation assigns  $p_7 = 1$ .

Answer

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

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CS433 Q 1: Consider CNF formula  $(\neg p_1 \vee p_2) \wedge (\neg p_1 \vee p_3 \vee p_5) \wedge (\neg p_2 \vee p_4) \wedge (\neg p_3 \vee \neg p_4) \wedge (p_1 \vee p_5 \vee \neg p_2) \wedge (p_2 \vee p_3) \wedge (p_2 \vee \neg p_3 \vee p_7) \wedge (p_6 \vee \neg p_5)$ . Which of the following holds in a RUN of DPLL after only decision  $p_2 = 0$ ?

You have answered the following:

✓ unit propagation does not assign $p_7$ . (You are incorrect)
✗ unit propagation does not assign $p_4$ . (You are correct)
✗ unit propagation assigns $p_4 = 0$ . (You are incorrect)
✗ unit propagation assigns $p_7 = 1$ . (You are incorrect)

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

<input type="checkbox"/> $(\neg p2 \vee p1)$ is true
<input type="checkbox"/> $(p4 \vee p2)$ is true
<input type="checkbox"/> $(\neg p4 \vee \neg p1)$ is true
<input type="checkbox"/> $(p1 \vee p5 \vee p4)$ is a unit clause

Answer

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

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

You have answered the following:

✗ $(\neg p2 \vee p1)$ is true (You are correct)
✓ $(p4 \vee p2)$ is true (You are correct)
✓ $(\neg p4 \vee \neg p1)$ is true (You are correct)
✗ $(p1 \vee p5 \vee p4)$ is a unit clause (You are correct)

RollNo. 23B0912

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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.)

<input type="checkbox"/> $-4^* \vee 2^* \vee 8^*$
<input type="checkbox"/> $-1 \vee 101^* \vee -6^*$
<input type="checkbox"/> $-4^* \vee 2^* \vee 8$
<input type="checkbox"/> $100^* \vee -302^* \vee -2$

Answer

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

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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.)

You have answered the following:

<div>✖ <math>-4^* \vee 2^* \vee 8^*</math> (You are correct)</div>
<div>✔ <math>-1 \vee 101^* \vee -6^*</math> (You are incorrect)</div>
<div>✔ <math>-4^* \vee 2^* \vee 8</math> (You are correct)</div>
<div>✔ <math>100^* \vee -302^* \vee -2</math> (You are correct)</div>

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

<input type="checkbox"/> $t_5 = 2$
<input type="checkbox"/> $t_{10} = 1$
<input type="checkbox"/> $t_4 = 2$
<input type="checkbox"/> $t_7 = 8$

Answer

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

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

You have answered the following:

✔ t5 = 2 (You are incorrect)
✔ t10 = 1 (You are incorrect)
✘ t4 = 2 (You are correct)
✔ t7 = 8 (You are incorrect)

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