Problem Set 3

COSC 290 Spring 2018

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1 Problem 1: Translating natural language into logic

1.1 DLN 3.145

$\forall t \in T : [\forall j_1, j_2 \in J : [At(j_1, t) \land At(j_2, t) \implies j_1 = j_2]]$

1.2 DLN 3.146

$\forall j \in J : [\exists t \in T : scheduledAt(j, t)]$

1.3 DLN 3.147

$\forall t \in T : [At(A, t) \implies \neg(At(A, t+1) \lor At(A, t+2))]$

1.4 DLN 3.148

$\exists t_1, t_2, t_3 \in T : [At(B, t_1) \land At(B, t_2) \land At(B, t_3) \land (t_1 \neq t_2 \neq t_3)]$

1.5 DLN 3.149

$\forall t_1, t_2, t_3 \in T : [(At(B, t_1) \land At(B, t_2) \land (t_1 \neq t_2 \neq t_3)) \implies \neg At(B, t_3)]$

1.6 DLN 3.150

$\exists t \in T : [scheduledAt(D, t) \land \exists k \in T : [scheduledAt(E, k) \land \forall n \in T : [scheduledAt(E, n) \implies n <= k] \land t > k]]$

1.7 DLN 3.151

$\exists t \in T : [scheduledAt(]$

1.8 DLN 3.152

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2 Problem 2: More binary numbers

Replace this with your answer to problem 2. Use `\subsection{}` to separate your answer into parts.

3 Problem 3: Circuits

Replace this with your answer to problem 2. Use `\subsection{}` to separate your answer into parts.

4 Problem 4: More circuits

Replace this with your answer to problem 2. Use `\subsection{}` to separate your answer into parts.