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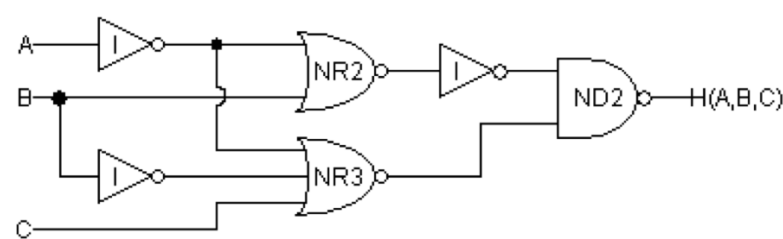
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LE3.5

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LE3.5.1: Timing

2/2 points (ungraded)
Consider the following circuit that implements the 3-input function $H(A,B,C)$:



Using the following table of timing specifications for each component, what are the contamination delay t_{CD} and the propagation delay t_{PD} for the circuit shown above?

<u>gate</u>	<u>t_{CD}</u>	<u>t_{PD}</u>
I	3ps	15ps
ND2	5ps	30ps
NR2	5ps	30ps
NR3	10ps	50ps

t_{CD} (in picoseconds): ✓

t_{PD} (in picoseconds): ✓

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? [why isn't the longest path \(I + NR2 + I + ND2\) ? and the shortest path \(NR3 + ND2\)?](#)

[why isn't the longest path \(I + NR2 + I + ND2\) ? and the shortest path \(NR3 + ND2\)? please explain , I feel a bit baffled here.](#)

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 Calculator



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