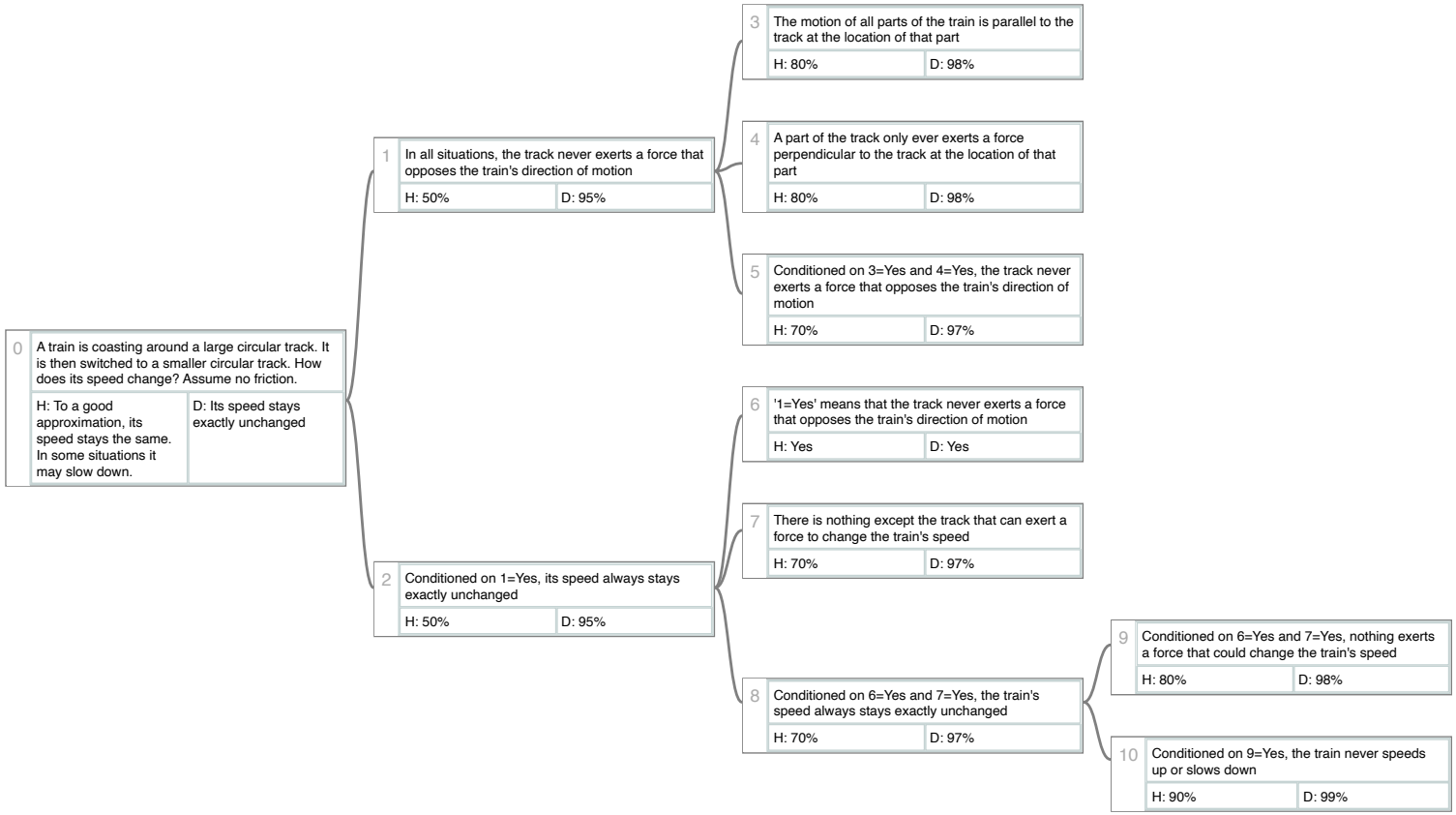
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A train is coasting around a large circular track. It is then switched to a smaller circular track. How does its speed change? Assume no friction.
H: To a good approximation, its speed stays the same. In some situations it may slow down.
D: Its speed stays exactly unchanged
1
In all situations, the track never exerts a force that opposes the train's direction of motion
H: 50%
D: 95%
2
Conditioned on 1=Yes, its speed always stays exactly unchanged
H: 50%
D: 95%
3
The motion of all parts of the train is parallel to the track at the location of that part
H: 80%
D: 98%
4
A part of the track only ever exerts a force perpendicular to the track at the location of that part
H: 80%
D: 98%
5
Conditioned on 3=Yes and 4=Yes, the track never exerts a force that opposes the train's direction of motion
H: 70%
D: 97%
6
'1=Yes' means that the track never exerts a force that opposes the train's direction of motion
H: Yes
D: Yes
7
There is nothing except the track that can exert a force to change the train's speed
H: 70%
D: 97%
8
Conditioned on 6=Yes and 7=Yes, the train's speed always stays exactly unchanged
H: 70%
D: 97%
9
Conditioned on 6=Yes and 7=Yes, nothing exerts a force that could change the train's speed
H: 80%
D: 98%
10
Conditioned on 9=Yes, the train never speeds up or slows down
H: 90%
D: 99%