

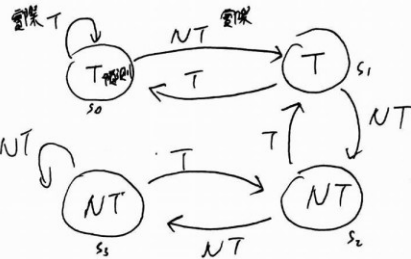
Date: 2017/05/23

Student ID:

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Giving the following repeating pattern of branch outcomes: Taken, Not Taken, Taken, Taken, Not Taken, what is the accuracy of the 2-bit predictor if the pattern is repeated forever?

T, NT, T, T, NT, ...



Start from s_0

0	X	0	0	X	0	X	0	0	X	
T	NT	T	T	NT	...	T	NT	T	T	NT
s_0	s_0	s_1	s_0	s_0	s_1	s_0	s_1	s_0	s_0	s_1
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Correct 60%										

Start from s_3

X	0	X	X	X	X	X	X	0	X	0	X	0	0	X
T	NT	T	T	NT	...	T	NT	T	T	NT	T	NT	TT	NT
s_3	s_2	s_3	s_2	s_1	s_2	s_1	s_2	s_1	s_0	s_1	s_0	s_1	s_0	s_0
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$\infty \rightarrow 60\%$														