

Index	Entry
00000	1
00001	0
00010	2
00011	3
00100	3
00101	2
00110	0
00111	0
01000	0
01001	3
01010	2
01011	2
01100	3
01101	3
01110	0
01111	0
10000	0
10001	1
10010	0
10011	1
10100	0
10101	2
10110	3
10111	2
11000	0
11001	1
11010	0
11011	3
11100	2
11101	0
11110	1
11111	1

For each of the branch addresses below, show what the 2-bit global predictor at left will predict (2|3 = T or 0|1 = N) for that Index, then update the Entry in the predictor and the History value. The initial history value is shown in the column heading. History bits shift from right to left, and the history is exclusive-ORed with the index bits of the branch address to get the table Index.

Address	Prediction	Outcome	History 01010
10101110010001		T	
01110010101010		N	
01010100101010		N	
11000101010001		T	
10100011001010		N	
00001110110001		T	
10101001011011		T	
00001110110001		T	
10100100101010		T	
10101110010001		N	

What percentage of the predictions are correct?
 Note that because there are 10 addresses in the trace, the percentage is just a factor of ten.

_____ %