

# ABA BJ Puzzle of the Week: 8/26/10

## Lighthouse

In this puzzle, we were looking for the fraction of the time the two lights show the same color if the given sequence starts at the same time. The solution is  $1/6^{\text{th}}$  of the time, arrived as follows:

LIGHTHOUSE A	SECONDS	LIGHTHOUSE B
Red	1	Red
White	2	Red
Green	3	White
Green	4	White
White	5	Green
Red	6	Green
Red	7	Green
White	8	Green
Green	9	White
Green	10	White
White	11	Red
Red	12	Red

$$2 \text{ sec}/12 \text{ sec} \times 100 = 16.66\%$$