Suppose you flip a fair coin six times. Let X be the number of Heads you get, and let Y be the number of Tails minus the number of Heads. What is the probability that X = Y?

- (a) 15/64
- (b) 15/32
- (c) 15/16
- (d) 15/128
- (e) 5/64
- (f) 3/64
- (g) 1/2
- (h) 1/3
- (i) 1/15
- (j) None of these