Let $S = \{a, b, c, d\}$ be a sample space for an experiment. Suppose the probabilities of observing a, b, c, d, are 1/2, 1/4, 1/6, 1/12, respectively. What is the probability that either $\{b, c\}$ or $\{c, d\}$ or both occur?

- (a) 1/2
- (b) 2/3
- (c) 5/48
- (d) 1/3
- (e) 3/4
- (f) 3/8
- (g) 1/4
- (h) 0
- (i) 1
- (j) None of these