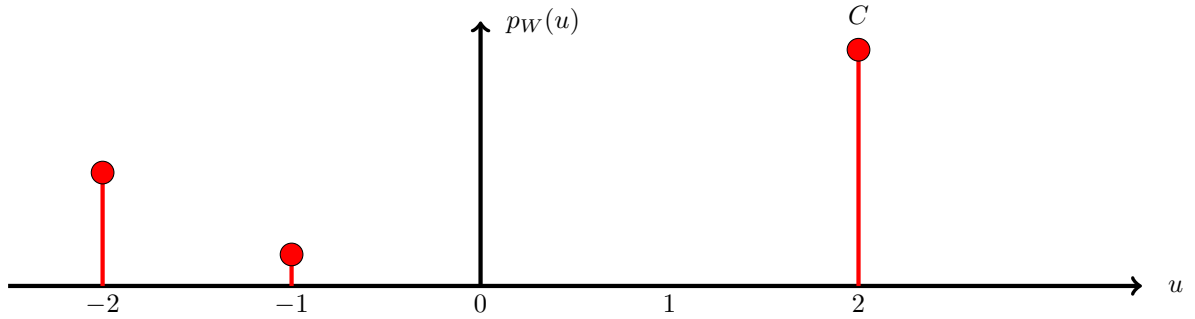The random variable W has probability mass function shown below. Its expected value is $1/4$ and the probability that W^2 is larger than two is $11/12$. What is C?

(a) $13/24$

(b) $1/8$

(c) $3/8$

(d) $5/8$

(e) $1/24$

(f) $11/24$

(g) $5/12$

(h) $7/12$

(i) $1/6$

(j) $5/6$

(k) $3/8$

(l) None of these