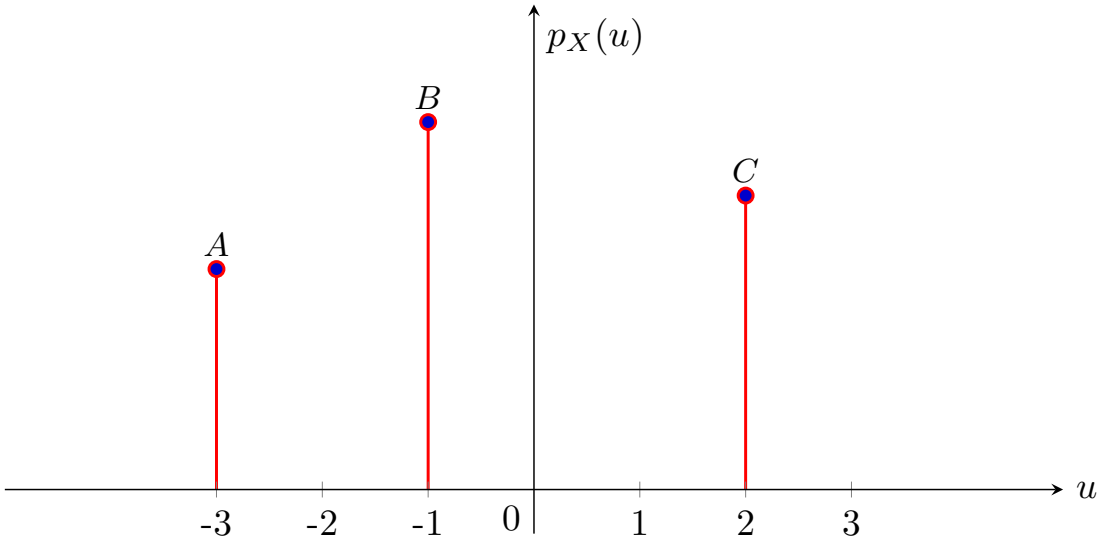
Let X be a discrete random variable, whose probability mass function (pmf) is shown below. If X has mean $-1/2$ and cummulative distribution (CDF) value $F_X(0) = 2/3$, then what is the value of B ?



(a) 5/12

(b) 5/24

(c) 5/6

(d) 7/12

(e) 1/6

(f) 1/3

(g) 1/4

(h) 3/4

(i) 2/3

(j) 0

(k) 1/8

(l) 1/2

(m) None of these