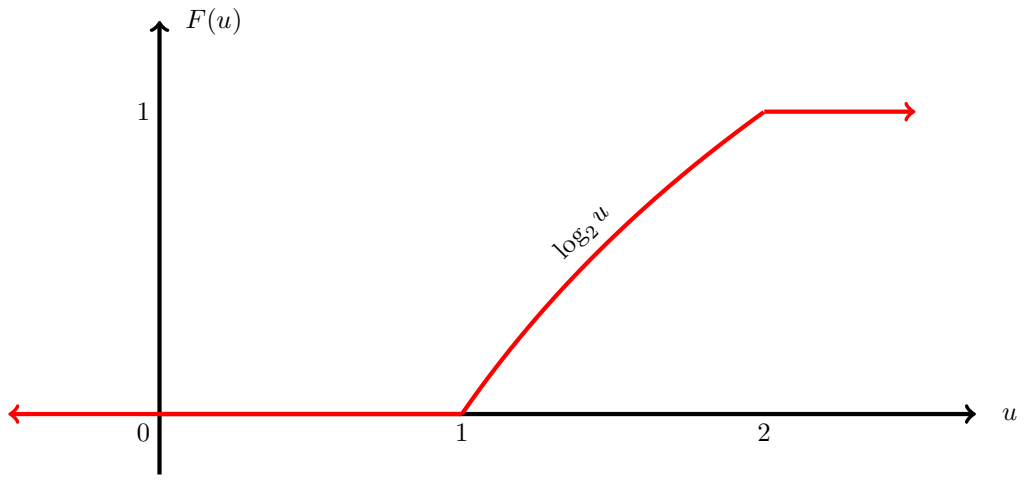
What is the expected value of a random variable whose cummulative distribution function is shown below?



(a) $\log_2 e$

(b) $3/2$

(c) $1/3$

(d) $\log_2 3$

(e) $\ln 2$

(f) $1/2$

(g) $3/4$

(h) $2/3$

(i) $1/4$

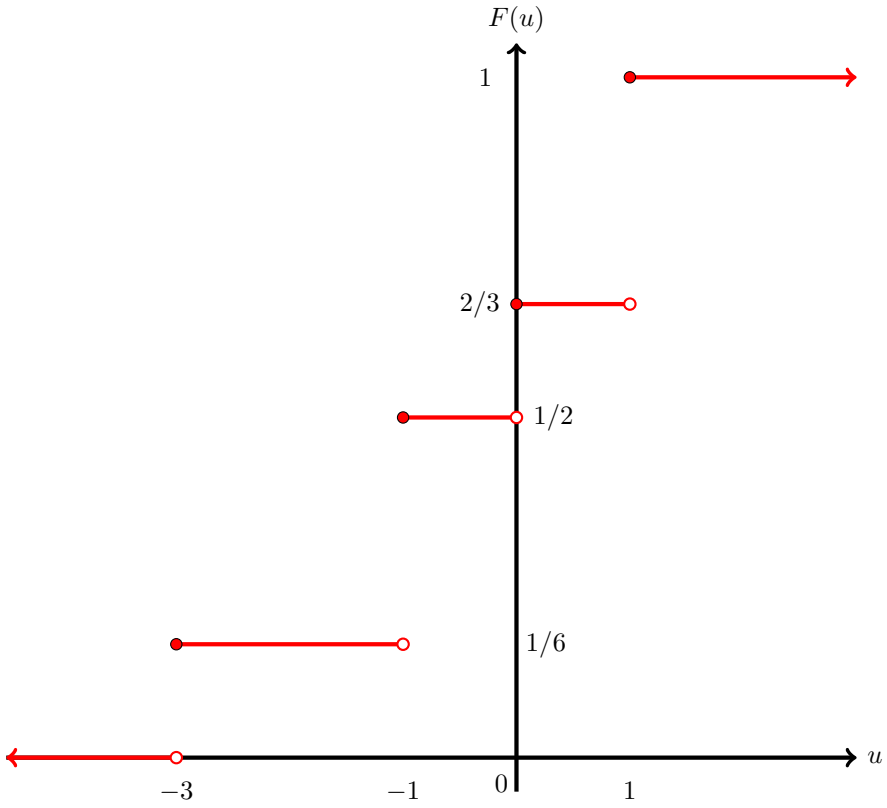
(j) $\ln 3$

(k) 1

(l) 0

(m) None of these.

What is the mean of a random variable whose cummulative distribution function is shown below?



(a) $-1/2$

(b) $1/2$

(c) $-1/4$

(d) $1/4$

(e) 0

(f) 1

(g) $3/2$

(h) $-3/2$

(i) -1

(j) -2

(k) $-5/2$

(l) None of these

Suppose we roll a fair 3-sided die twice. What is the expected value of the minimum of the two values that come up?

(a) 14/9

(b) 14/3

(c) 5/3

(d) 13/9

(e) 16/9

(f) 1

(g) 2

(h) 3

(i) 3/2

(j) 2/3

(k) 2/9

(l) None of these.