Let X be a random variable whose CDF is $F(u) = u/2$ whenever $0 \leq u \leq 2$. What is the probability that $e^X > 2$?

(a) $1 - \ln \sqrt{2}$

(b) $\ln 2$

(c) $1 - \ln 2$

(d) $e - 1$

(e) $e - 2$

(f) $\sqrt{e} - 1$

(g) $1/2$

(h) $(\ln 2)/2$

(i) $1/\sqrt{e}$

(j) 1

(k) 0

(l) None of these.