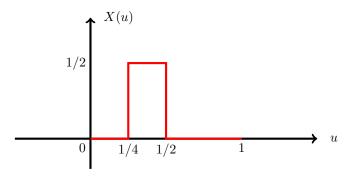
The sample space of an experiment is the unit interval S=[0,1], and P([a,b])=b-a whenever $0 \le a \le b \le 1$. A random variable $X: S \to R$ is shown in red in the figure below.



Which of the following is the cumulative distribution function (CDF) of X?

