

**44.** You are given:

- (i) Losses follow an exponential distribution with mean  $\theta$ .
- (ii) A random sample of 20 losses is distributed as follows:

Loss Range	Frequency
$[0, 1000]$	7
$(1000, 2000]$	6
$(2000, \infty)$	7

Calculate the maximum likelihood estimate of  $\theta$ .

- (A) Less than 1950
- (B) At least 1950, but less than 2100
- (C) At least 2100, but less than 2250
- (D) At least 2250, but less than 2400
- (E) At least 2400