7. The $X_1,...,X_n$ be a random sample from a population with PDF

$$P_{\theta}(X=x) = \theta^{x}(1-\theta)^{1-x}, \quad x = 0 \text{ or } 1, \quad 0 \le \theta \le 0.5.$$

- (a) Find the MME of θ .
- (b) Find the MLE of θ .