1	2	3	4
~~331~~	156	0	~~513~~

$$\hat{\theta} = T(\hat{F})$$

$$\hat{\mathbb{E}}[X] = T_{\mathbb{E}}[\hat{F}]$$

$$= \int_{-\infty}^{\infty} x \cdot d\hat{F}(x)$$

$$= \sum_{x}^{\infty} x \cdot d\hat{F}(x)$$

$$= \sum_{x} x \cdot \hat{f}(x)$$ this is the table above

$$= \frac{1}{4}(1 + 2 + 3 + 4)$$

$$= \left(1 \cdot \frac{331}{1000}\right) + \left(2 \cdot \frac{156}{1000}\right) + 0 + \left(4 \cdot \frac{513}{1000}\right)$$

$$= \frac{331}{1000} + \frac{312}{1000} + \frac{2052}{1000}$$

$$= \frac{2695}{1000} = 2.695$$

$$\hat{\mathbb{E}}[X] = 2.695$$

$$\mathbb{E}[X] = 2.66$$