Tash 1 PEX=2"] = 2" Vn=1 1 PEX= 4] = O Volher 4 - verify Z z = 1 E 94 = 1-9, 191<1  $\frac{2}{2} \cdot n = \frac{2}{2} \left(\frac{1}{2}\right)^n = \left(\frac{2}{2}\right)^n, -\left(\frac{1}{2}\right)^0 = \frac{1}{1-\frac{1}{2}} - 1 = 2 - 1 = 1$ - E[x] = \( \int \times \) \( \ = \frac{2}{2}^n \cdot 2^{-n} = \frac{5}{2} 1 - E[x2] - \( \frac{1}{2} \times - E[fx] = 2 1x; P[X=xi] : 2 12" 2" = 2 2" - " - E [log\_x]: \[ \log\_2(xi) \( P[x=xi] = \frac{2}{n=1} \log\_2(2^n) \cdot 2^n \]