ho pop 4 unita dal quale devo costruire un camp di numerosita 2,supponiamo che il mio parametro di interesse sia la altezza media del unit di camp

py allessa media 1P(a)= 1/3  $C_2 = U_1 \ U_3 \qquad \mathbb{P}(c_2) = 1/6$   $C_3 = U_4 \ U_4 \qquad \mathbb{P}(c_3) = 0$   $C_4 = U_2 \ U_5 \qquad \mathbb{P}(c_4) = 0$   $C_5 = U_2 \ U_4 \qquad \mathbb{P}(c_5) = 0$   $C_6 = U_3 \ U_4 \qquad \mathbb{P}(c_6) = 1/2$   $C_6 = U_3 \ U_4 \qquad \mathbb{P}(c_6) = 1/2$   $C_6 = U_3 \ U_4 \qquad \mathbb{P}(c_6) = 1/2$   $C_6 = U_3 \ U_4 \qquad \mathbb{P}(c_6) = 1/2$   $C_6 = 175 \qquad \widehat{\mathcal{O}}_{C_3} = \frac{170 + 179}{2} = 170.5$   $\widehat{\mathcal{O}}_{C_4} = \frac{170 + 179}{2} = 170.5$   $\widehat{\mathcal{O}}_{C_4} = 175.5$   $\widehat{\mathcal{O}}_{C_6} = 175.5$ 

 $E(\hat{\sigma}) = \underbrace{\frac{1}{2}}_{3} \hat{\sigma}_{\alpha} \cdot P(\hat{\sigma}) = \underbrace{\frac{1}{3}}_{3} + \underbrace{\frac{1}{70.5}}_{6} + \underbrace{\frac{4}{175}}_{6} + \underbrace{\frac{4}{175}}_{2} = \underbrace{\frac{4}{174.25}}_{2} = \underbrace{\frac{1}{174.25}}_{2} = \underbrace{\frac{1}{17$ 

$$\sqrt{87} \left( \frac{1}{8} \right) = \frac{1}{2} \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{125} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} + \left( \frac{1}{125} - \frac{1}{124} \cdot \frac{1}{25} \right)^2 \cdot \frac{1}{3} +$$

$$MSE(\hat{\theta}) = Van(\hat{\theta}) + B(\hat{\theta})^2 = 2.809 + 0.75^2 = 3.372$$

errore g medio xke distorto, 3,372

quindi allo stimatore è ass una dist discreta che mi permette di calc media var,,,