Shusham Gura 180779 Q3-P1 Xm = locate of ton after xo = intel break Oi = expected profit. don't riched ;. $0 = (1-1)d \beta \left(\frac{(k-i)(k-i+1)}{2} + \frac{i(i-1)}{2}\right)$ 1 2 3 -- k 1 1-1/k-1 -- k remark brusiti prof now construct a distribution. log me profit = li = 5 Ym 1/m=50; T (xm-1=i) log m proper = 1 = 1 = 1 = 1 = 1 (xn-=1) logambrofit = , So; II; when Ti = 1 E [Tii]

イボーデア (ニー) ーボールのといる [T] = 1/4) 600 all 81/1 and porch $\frac{1}{k} \cdot \log \operatorname{supproprise} = \frac{1}{k} \cdot \frac{1}{2} \cdot 0 \cdot T \cdot \operatorname{also} \left(\frac{1}{2} \cdot 0 \cdot 1 - 1 \right)$ [log run profit = 1/2]