

	(Ordurd statistics)
	(Ot) Given Y, Y2 X2 ~ 1x, Fx id as random variables, but Y3 be the random
	(Ot) Given Y, Y2 X2 ~ 1x, Fx iid as random raciables, but Y5 be the random
	variable representing the jth smallest value we call typ the jth -order statistic.
	$(E_X)(1)$ $Y_{e_1} = M_A(X_1 X_h)$
	(2) $Y_{(p)} = Max(X_1 \dots X_n)$
	$(3) Y_{(1)} - Y_{(1)} = \max(X_1 - X_{(1)}) - \min(X_1 - X_{(1)}) = \text{"Songe range"}$
	(4) Yet = sample medical (if n is add)
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	What is the pdf of the jth-order statistic?)
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	$\Rightarrow \int_{Y_{i}^{*}} \left(v\right) = \left(\frac{n}{j-1, 1, n \cdot j}\right) \left(\frac{F_{i}(v)}{f_{i}(v)}\right)^{j-1} \frac{f_{i}(v)}{f_{i}(v)} \left(1 - F_{i}(v)\right)^{n-j},  \text{for } v \in Support(v).$
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	who is joint distribution of Ym. Ym?
	$\Rightarrow f_{Y_1, Y_2}(v_1, v_1) = n! f(v_1) \dots f(v_n) \qquad v_1 \leq v_2 \dots \leq v_n  \text{and}  v_i \in \text{support}(V).$
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	In letters, you noted  (1) If $X_1 X_n \sim uniform(0,1)$ iid , $Y_{(f)} \sim \text{Bela}(k, n-k+1)$ .
	$(0)$ If $k_1 \dots k_n \sim m_1 m_n(0,1)$ if $n = m_1 = m_1 + m_2 = m_1 + m_2 = m_2 = m_1 + m_2 = m_2$
	(6) Are ordurd statistics independent r.v.'s?
	(a) 30 firecrackers are ignited simultaneously, each of whose ignition is ~ exponentially
	distributed with moun 1 minut. Find the probability that the first fiberrucker to
	stop olver so within the fixt 10 seconds.
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