Problem 1

* N forms X^2
* X^2 and X^2 form F
* X^2 and N forms T
* Population variance known use normal, otherwise use t
* F test two population variance

Problem 2

Let be an iid random sample of size from X1, X2, ..., Xn be an iid random sample of size n from the Uniform(0, θ) distribution.

1. Find the cdf of Xmax.

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1. Find a pivot, Q, such that P(Q≤ t) does not depend on θ .

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