Bootstrap
Trac distribution i id samples estimator
For (x) Singles estimator (singles) - Por (x) - Fin z En Can).
God! Estimate of.
Q. Has clor is on to 9!
Suppose we had an oracle that told as forely, then we also know the distribution of In.  In partitular, we know Var Lan)
Ideal: Replace Pot with Pr = uniform distribution on 28, Su), i.e. the empirical distribution.
It. In is don't to for, then
Vorge (În) $\approx$ Var (În) $\approx$ $\approx$ $\approx$ $\approx$ $\approx$ $\approx$ $\approx$ $\approx$ $\approx$ $\approx$
Idea 2: Sample from Pn in order to get an approximate of the functional latationic that we want to compute.
an approximate of the purcus of
In our case, Var (In) = 101/21 (8n - 9n)
If B is large enough, then.
Var (In) ~ Var in (In)

Henel, Vorgo (An) ~ Var (An) ~ Var ph (An) hoostotiest estimate. Kem! D Iden applies to other functionals of distributions of In, like quantile DIR we an bootstrap to get Is, then then are only asymptotically valid. Bootstup algorithm. Input: Sumple King In, estimator En. 

extenses some statuties. that we want.