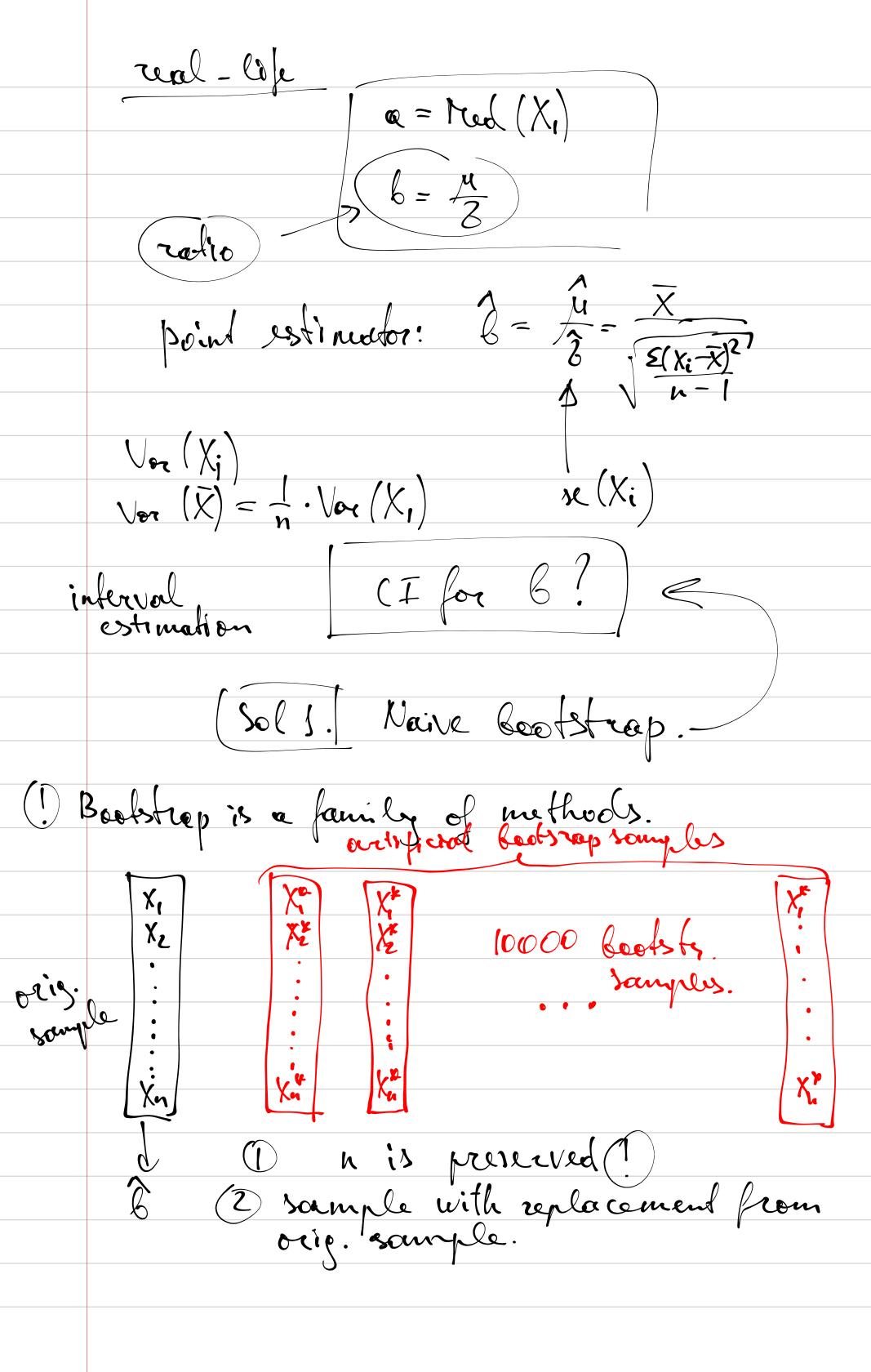
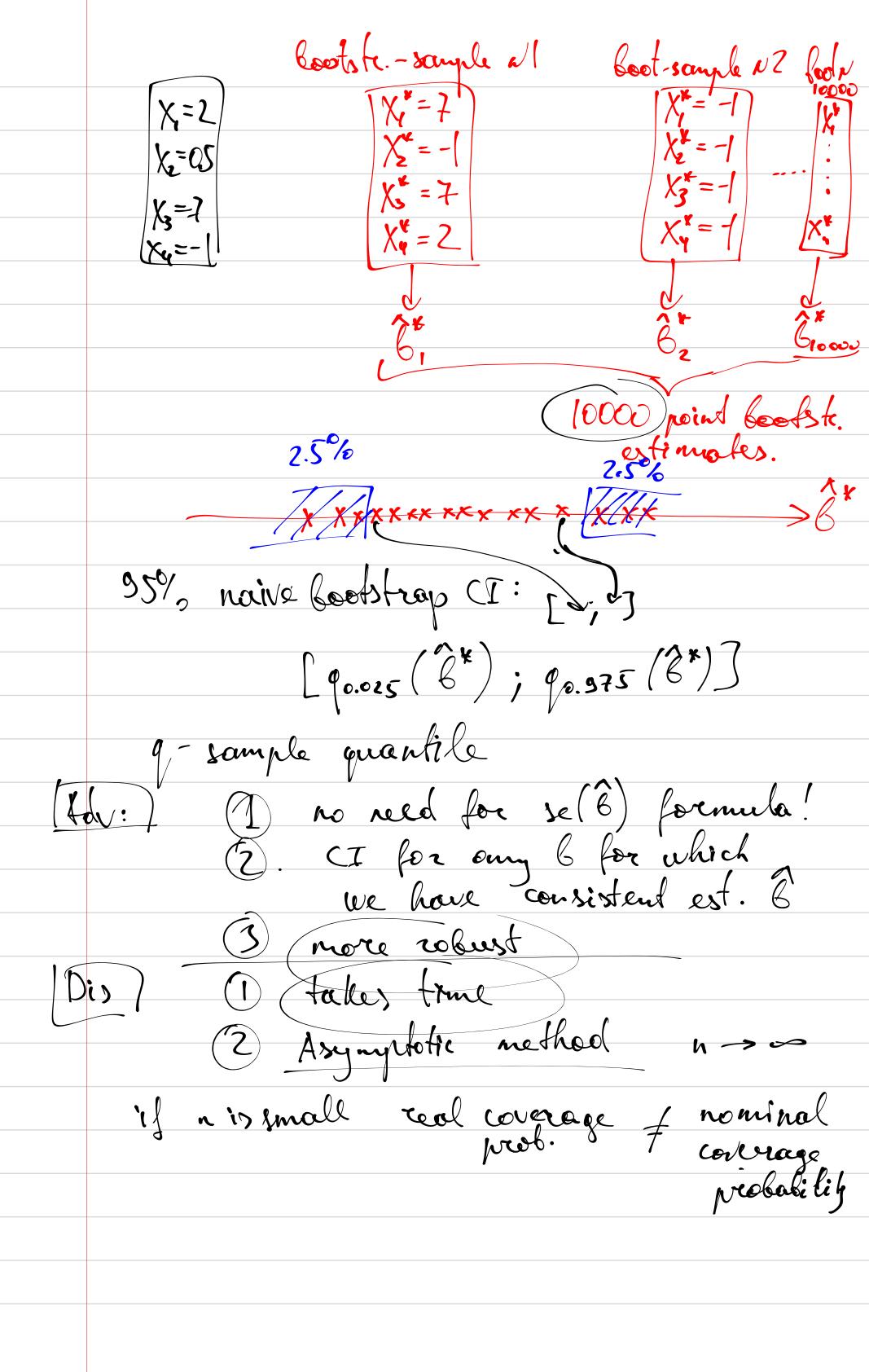
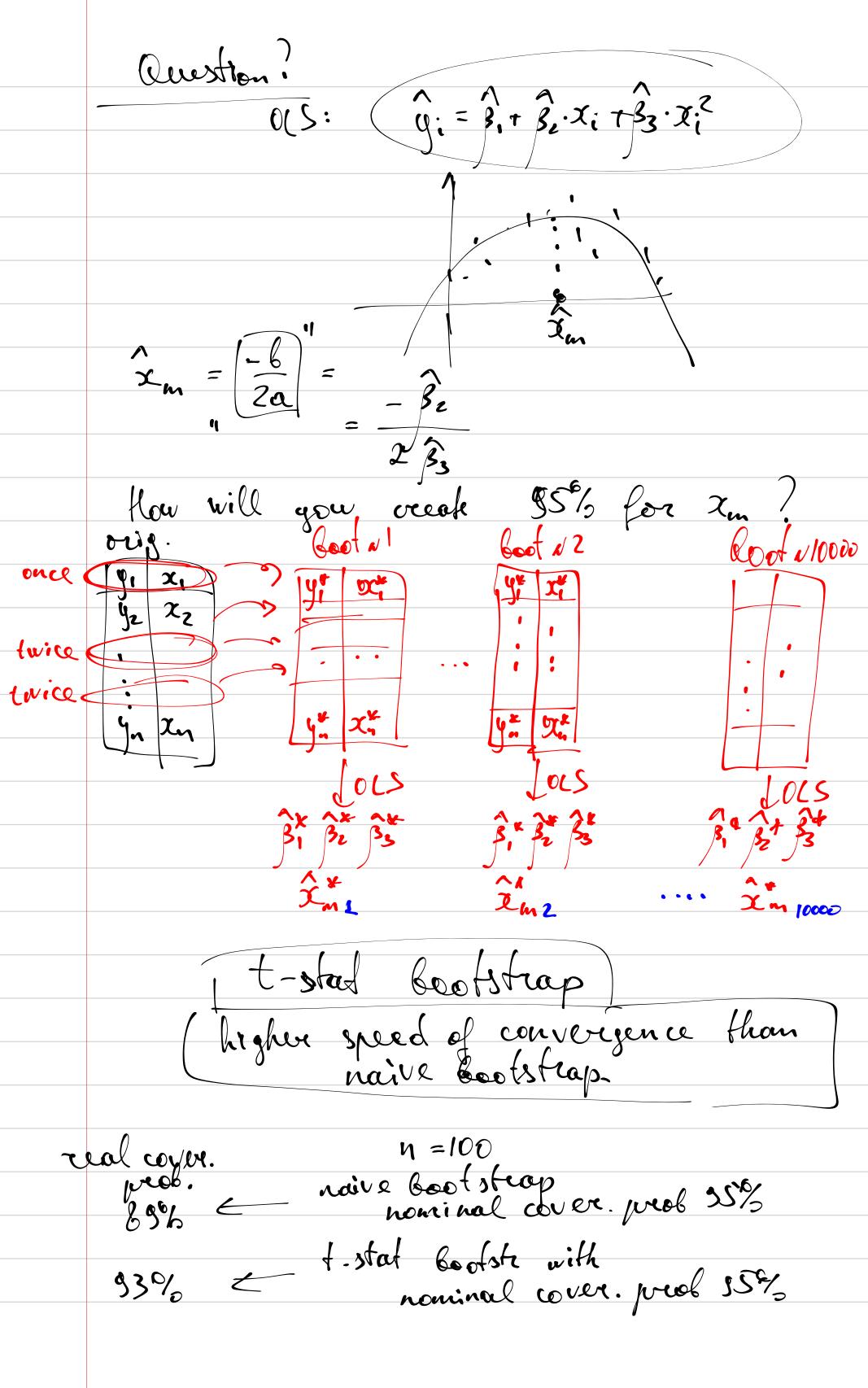
	1. vou are fired
	1. you are fired 2. Steange external course
	2.1. spss??????
	2.2. coursevoul vithout data??????
•	
	wiki.cs. hse. zu ->
	grades:
	Vol grades = 0,3 · coursen + 0,7 · exorm
	Vol grades = 0.3 coursen + 0.7 exam Fall grade - 0,4. Ht + 0.5 Fall exam Final grade = 0.5 Fall grade +
	Final proide = 0.5. Fall prade +
	0.2.4 A + 0.2. Final exam
	Bootsteep, Sackknife, CV.
	Stand. Simple problem X Xn u is bog
	X, Xn en is bog
	X; ~iid
	$\mathcal{U} = \mathbb{E}(X \cdot)$
	a) point estimator
	a) point estimator $\hat{u} = \overline{X}$
	b) (I 35% for u:
	$CI = \left[\hat{u} - 1.96 \text{ se}(\hat{u}) ; \hat{u} + 1.96 \text{ se}(\hat{u}) \right]$
	se(u) = se(X) = J Voi(X) = J u · Voi(X) =
	$Se(\hat{u}) = Se(\overline{X}) = \int_{0}^{\infty} Vor(\overline{X}) = \int_{0}^{\infty} Vor(X_{1}) =$
	$= \overline{n}$
	$= \frac{1}{2} \cdot 10 \cdot \sqrt{2} \cdot (X_1) = \frac{1}{2} \cdot 1/2 \cdot (X_1)$

Problems:







t-start. Bootstrap Ideal sit: [CL7]: If X_1, X_2, \dots are iid

with $u = E(X_1)$ then (X - u) se(X) se(X) $re(\bar{X}) = \int_{N}^{\infty} \frac{\mathcal{E}(\bar{X}_i - \bar{X})^2}{n-1}$ quantiles [X (-1.96) se(X); X(+1.96) se(X)] t-stad bookstrap: we use right resompled $\left[\overline{\chi} - ? \cdot se(\overline{\chi}); \overline{\chi} + ? \cdot se(\overline{\chi})\right]$ $t = \frac{X - u}{se(X)} \Rightarrow t = \frac{X - X}{se(X^*)}$ orig > bootstr. sample bootn's boots Good N 10000 1.5% 2.5%

-2.5 (X) (X) (X+2.5 se(X))

