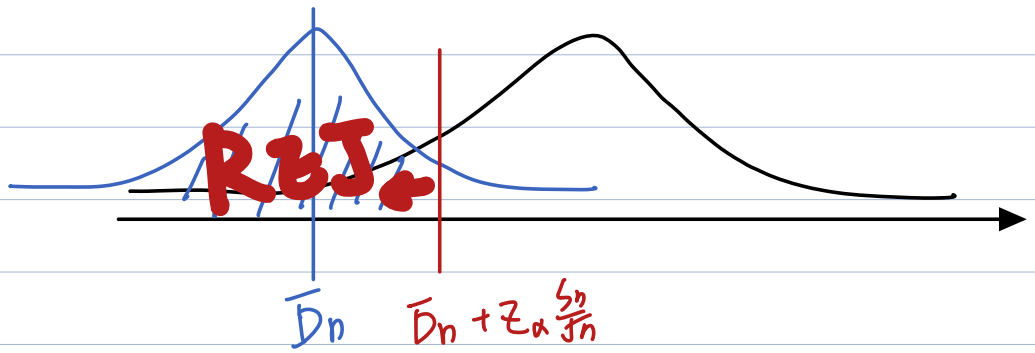
(mean b)

Reject H_0 if $\bar{D}_n < \underbrace{M_0}_{0} - \underbrace{z_\alpha}_{qnorm(1-alpha)} \frac{S_n}{\sqrt{n}}$ → se

$\Rightarrow M_0 > \bar{D}_n + z_\alpha \frac{S_n}{\sqrt{n}}$



$\bar{D}_n$ $\bar{D}_n + z_\alpha \frac{S_n}{\sqrt{n}}$

$(= M_0 - z_\alpha \frac{S_n}{\sqrt{n}})$

$\Rightarrow$ Reject H_0 if $M_0 \notin (-\infty, \bar{D}_n + z_\alpha \frac{S_n}{\sqrt{n}}]$ = the M_D's CI.