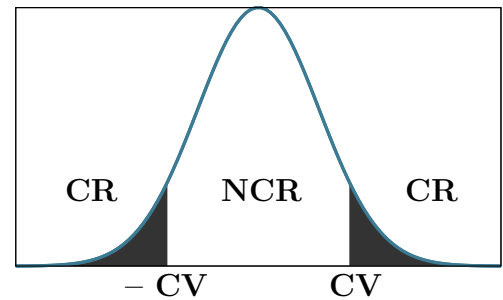


Hypothesis Testing for One Population Mean

Two-Tail Test:

$$H_0 : \mu = \mu_0$$

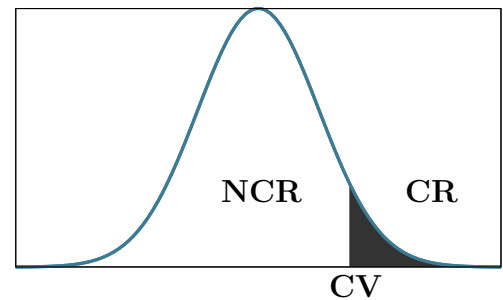
$$H_1 : \mu \neq \mu_0$$



Right-Tail Test:

$$H_0 : \mu \leq \mu_0$$

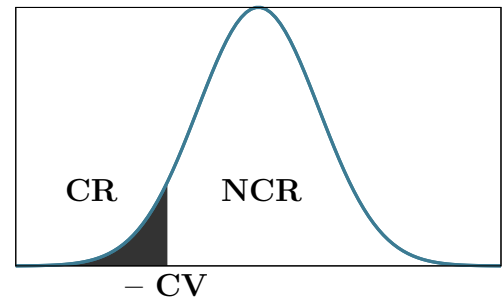
$$H_1 : \mu > \mu_0$$



Left-Tail Test:

$$H_0 : \mu \geq \mu_0$$

$$H_1 : \mu < \mu_0$$



Case I: σ Known		Case II: σ Unknown	
C.V.	ZVAL	C.V.	TVAL, $df = n - 1$
C.T.S. & P-Value	Z-Test	C.T.S. & P-Value	T-Test
C.T.S. Formula	$z = \frac{\bar{x} - \mu}{\frac{\sigma}{\sqrt{n}}}$	C.T.S. Formula	$t = \frac{\bar{x} - \mu}{\frac{s}{\sqrt{n}}}$