Problem 1	(right	tail	test)	
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l	U.S. Plants	Japanese Plants	<i>n</i> ₁ = 5
	7.11% 8 6.06% 6 8.00% 9 6.87% 7 4.77% 4 $T_1 = 34$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$n_2 = 4$ $\rightarrow n = 9$ $\alpha = 0.05$ Nonparametric Test: Wilcoxon Rank Sum Test
A.		US Plants and population Dist	ribution of turnover rates of I Japanese Plants are identical tribution of turnover rates of US Plants e right of that of the Japanese Plants
-	Test Statistics:	$T = T_2 =$	11
	Rejection Regi	on: $T_2 \leq T_L$ ·	$\rightarrow T_2 \leq 13$
	Conclusion : Th	nover rates of U	evidence to conclude that the population distribution IS Plants is shifted to the right of that of Japanese

U.S. Plants	Japanese Plants	$n_1 = 5$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$n_2 = 4$ $\rightarrow n = 9$ $\alpha = 0.05$
	US Plants a he population D	istribution of turnover rates of nd Japanese Plants are identical Distribution of turnover rates of US Plants is shifted either or to the left of that of the Japanese Plants
Test Statistics:	$T = T_2 =$	11
Rejection Reg	jion: $T \leq T_L$ o	$r \ T \ge T_U$
	$\rightarrow T \leq 12$	2 or $T \ge 28$
Conclusion : T of tur		evidence to conclude that the population distribution IS Plants is shifted either to the right or to the left of that

City	Corporate Lawyers	Lawyers with Law Firms	
Atlanta	45,500	45,500	
Chicago	43,000	48,000	
Cincinnati	43,500	45,000	
Dallas/Ft. Worth	49,500	46,500	
Los Angeles	47,000	60,000	
Milwaukee	37,500	50,000	
Minneapolis/St. Paul	47,500	43,500	
New York	43,500	54,000	
Pittsburgh	42,000	44,000	
San Francisco	47,500	59,500	
Norman	o mo otrio Tor	t. Wilcover Derk Cirr Test	
Nonbar	ametric les	st: Wilcoxon Rank Sign Test	

City	Corporate Lawyers	Lawyers with Law Firms	Differences	Abs(dif)	Ranks
Atlanta	45,500	45,500	0	0	ELIMINATED
Chicago	43,000	48,000	-5,000	5,000	5
Cincinnati	43,500	45,000	-1,500	1,500	1
Dallas/Ft. Worth	49,500	46,500	3,000	3,000	3
Los Angeles	47,000	60,000	-13,000	13,000	9
Milwaukee	37,500	50,000	-12,500	12,500	8
Minneapolis/St. Paul	47,500	43,500	4,000	4,000	4
New York	43,500	54,000	-10,500	10,500	6
Pittsburgh	42,000	44,000	-2,000	2,000	2
San Francisco	47,500	59,500	-12,000	12,000	7
T_+	= 9 $= 7$ $= 38$				



