MATH 5090 – Quiz 8

Name:

Below is the aluminium contamination of wood (mgm/cm sq) in different types of trees in the months of August and November.

Tree	Months	
	August (X_i)	November (Y_i)
1	8.9	12.2
2	10	12.2
3	7.9	9.8
4	8.1	9.2
5	8.3	9.0
6	13.8	14.2
7	12.6	12.8
8	8.1	7.3
9	9.5	8.5
10	16.5	15.3
11	13.6	12.2
12	14.2	12.7
13	13.3	11.1

Test $H_0 : F_X(t) = F_Y(t) \, \forall \, t$ vs. $H_A : F_X(t) > F_Y(t) \, \forall \, t$ at $\alpha = 0.0005$ by both the Wilcoxon Paired Sample Signed Rank Test and the Paired Sample Randomization Test. Compare results.