

Placement Algorithm - Input 1
F-Test Two-Sample for Variances

Repair Penalty

	<i>Variable 1</i>	<i>Variable 2</i>
Mean	-18.5708	-77.8708
Variance	4.178564	3667.358
Observations	720	960
df	719	959
F	0.001139	
P(F<=f) one-tail	0	
F Critical one-tail	0.891039	

$F < F \text{ Critical}$ and $M(1) > M(2) \Rightarrow \text{Equal Variance}$

t-Test: Two-Sample Assuming Equal Variances

	<i>Variable 1</i>	<i>Variable 2</i>
Mean	-18.5708	-77.8708
Variance	4.178564	3667.358
Observations	720	960
Pooled Variance	2097.736	
Hypothesized Mean Difference	0	
df	1678	
t Stat	26.26192	
P(T<=t) one-tail	6.3E-128	
t Critical one-tail	1.645762	
P(T<=t) two-tail	1.3E-127	
t Critical two-tail	1.961379	

$t \text{ Stat} > t \text{ Critical} \Rightarrow \text{Repair is better}$