

PMX with Self-Adaptive Penalty Function
F-Test Two-Sample for Variances

TRUE FALSE

	<i>Variable 1</i>	<i>Variable 2</i>
Mean	-39.0611	-39.1472
Variance	2249.557	2241.147
Observations	720	720
df	719	719
F	1.003753	
P(F<=f) one-tail	0.479981	
F Critical one-tail	1.13062	

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

t-Test: Two-Sample Assuming Equal Variances

	<i>Variable 1</i>	<i>Variable 2</i>
Mean	-39.0611	-39.1472
Variance	2249.557	2241.147
Observations	720	720
Pooled Variance	2245.352	
Hypothesized Mean Difference	0	
df	1438	
t Stat	0.03448	
P(T<=t) one-tail	0.48625	
t Critical one-tail	1.645914	
P(T<=t) two-tail	0.972499	
t Critical two-tail	1.961615	

$t \text{ Stat} < t \text{ Critical} \Rightarrow \text{No significant difference}$