



Both the random search algorithm and the evolutionary algorithm were tested on the 3rd CNF File.  
Their best score for each run is below.

Run	RS	EVO1	
1	186	200	F-Test Two-Sample for Variances
2	187	200	
3	186	200	
4	187	200	
5	191	200	
6	191	200	
7	190	200	
8	187	200	
9	189	200	
10	189	200	
11	192	200	
12	188	200	
13	187	200	
14	186	200	
15	191	200	
16	188	200	
17	188	200	
18	189	200	
19	191	200	
20	187	200	
21	189	200	
22	187	200	
23	187	200	
24	187	200	
25	188	200	
26	190	200	
27	188	200	
28	189	200	
29	189	200	
30	187	200	

	Variable 1	Variable 2
Mean	188.3667	200
Variance	2.86092	0
Observations	30	30
df	29	29
F	65535	
P(F<=f) one-tail	#DIV/0!	
F Critical one-tail	1.860811	

t-Test: Two-Sample Assuming Equal Variances

	Variable 1	Variable 2
Mean	188.3667	200
Variance	2.86092	0
Observations	30	30
Pooled Variance	1.43046	
Hypothesized Mean Difference	0	
df	58	
t Stat	-37.6714	
P(T<=t) one-tail	8.95E-43	
t Critical one-tail	1.671553	
P(T<=t) two-tail	1.79E-42	
t Critical two-tail	2.001717	

Reject null hypothesis. The algorithm with the highest mean does indicate a statistically better algorithm on this problem instance.

