

Report on “Graph Partitioning Problem” using Local Search

σ	Average Number of Iteration (count)	Average Cost (AC)	Minimum Cost
5	2	155.7	145
10	2	153.4	120
15	4	140.2	118
20	3	146.7	120
50	8	121.4	111
100	8	113.1	111
150	7	112	111
200	8	112	111
300	9	111	111

Input :

Set 1 = { 1, 3, 9, 5, 6, 11, 7, 13, 14 }

Set 2 = { 2, 4, 8, 10, 12, 15, 16, 18, 17 }

Output (Optimal):

Set 1 = { 15, 18, 10, 14, 12, 11, 17, 13, 16 }

Set 2 = { 5, 4, 3, 2, 7, 9, 6, 1, 8 }