

Sheet1

	bb.bba	bb.gbest	bb.gbestgc	bb.lbest	bb.lbestgc	bb.spso	bb.vn	bb.vngc	bba.gbest	bba.gbestgc	bba.lbest
ackley	1	0	0	1	1	-1	1	1	-1	-1	1
alpine	1	0	1	1	1	0	1	1	-1	-1	1
eggholder	0	-1	-1	-1	-1	-1	0	0	0	0	0
elliptic	1	0	1	1	1	1	1	1	-1	-1	1
goldsteinprice	1	1	1	1	1	1	1	1	-1	1	0
griewank	1	-1	-1	1	1	0	1	1	-1	-1	1
levy	1	-1	-1	1	1	0	0	1	-1	-1	1
michalewicz	1	-1	-1	0	1	-1	1	0	-1	-1	-1
quadric	1	-1	-1	1	1	-1	-1	-1	-1	-1	0
quartic	1	-1	-1	1	1	-1	1	1	-1	-1	1
rastrigin	1	0	0	1	1	-1	1	1	-1	-1	-1
rosenbrock	1	-1	-1	1	1	1	1	1	-1	-1	1
salomon	1	-1	-1	1	1	-1	0	0	-1	-1	1
schwefel1_2	1	-1	-1	1	1	-1	-1	-1	-1	-1	0
schwefel2_22	1	1	1	1	1	1	1	1	-1	0	1
schwefel2_26	0	0	0	0	1	0	1	1	0	0	0
sixhump	1	1	1	0	1	1	1	1	0	0	0
spherical	1	0	0	1	1	0	1	1	-1	-1	1
step	1	0	0	1	1	0	1	1	-1	-1	1
zakharov	1	-1	-1	1	1	-1	1	1	-1	-1	-1
-1	0	10	10	1	1	9	2	2	17	15	3
0	2	7	5	3	0	6	3	3	3	4	6
1	18	3	5	16	19	5	15	15	0	1	11

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bba.lbestgc	bba.spso	bba.vn	bba.vngc	best.gbest	gbest.lbest	gbest.lbestg	gbest.spsg	gbest.vr	best.vng	gbestgc.lbest	gbestgc.lbestg	gbestgc.spsg	gbestgc.vr
1	-1	1	1	0	1	1	-1	1	1	1	1	-1	1
1	-1	1	1	1	1	1	-1	1	1	1	1	-1	1
0	0	0	0	0	0	0	-1	1	1	0	0	-1	1
1	1	1	1	0	1	1	1	1	1	1	1	1	1
1	-1	0	1	1	1	1	0	1	1	-1	0	-1	-1
1	-1	0	0	0	1	1	1	1	1	1	1	1	1
1	-1	-1	0	0	1	1	1	1	1	1	1	1	1
-1	-1	-1	-1	0	1	1	-1	1	1	1	1	-1	1
0	-1	-1	-1	-1	1	1	-1	1	1	1	1	-1	1
1	-1	1	1	0	1	1	0	1	1	1	1	0	1
-1	-1	0	0	0	1	1	-1	1	1	1	1	-1	1
1	1	1	1	0	1	1	1	1	1	1	1	1	1
1	-1	-1	-1	0	1	1	-1	1	1	1	1	-1	1
0	-1	-1	-1	0	1	1	-1	1	1	1	1	-1	1
1	0	1	1	1	1	1	0	1	1	1	1	0	1
1	0	1	1	0	0	1	-1	1	1	0	1	-1	1
0	-1	0	1	0	0	0	-1	0	1	0	0	-1	0
1	-1	1	1	0	1	1	1	1	1	1	1	1	1
1	-1	1	1	1	1	1	0	1	1	1	1	-1	1
-1	-1	-1	-1	0	1	1	-1	1	1	1	1	-1	1
3	15	6	5	1	0	0	11	0	0	1	0	13	1
4	3	5	4	15	3	2	4	1	0	3	3	2	1
13	2	9	11	4	17	18	5	19	20	16	17	5	18

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lbestgc.vng	lbest.lbestgc	lbest.sps	lbest.vn	lbest.vngc	lbestgc.sps	lbestgc.vn	lbestgc.vngc	sps.vn	sps.vngc	vn.vngc
1	0	-1	-1	-1	-1	-1	-1	1	1	0
1	0	-1	0	0	-1	0	0	1	1	0
1	0	0	1	1	0	1	1	1	1	0
1	0	-1	-1	-1	-1	-1	-1	-1	-1	1
0	1	-1	0	1	-1	-1	0	1	1	1
1	0	-1	-1	-1	-1	-1	-1	1	1	0
1	0	-1	-1	-1	-1	-1	-1	0	1	1
1	0	-1	0	0	-1	0	0	1	1	0
1	0	-1	-1	-1	-1	-1	-1	1	1	0
1	1	-1	-1	-1	-1	-1	-1	1	1	0
1	0	-1	1	1	-1	1	0	1	1	0
1	0	0	-1	-1	0	-1	-1	-1	-1	0
1	0	-1	-1	-1	-1	-1	-1	1	1	0
1	0	-1	-1	-1	-1	-1	-1	1	1	0
1	1	-1	-1	-1	-1	-1	-1	1	1	1
1	0	-1	1	1	-1	1	1	1	1	0
1	0	-1	0	1	-1	0	1	1	1	0
1	0	-1	-1	-1	-1	-1	-1	1	1	0
1	0	-1	-1	-1	-1	-1	-1	1	1	0
1	0	-1	-1	-1	-1	-1	-1	1	1	0
0	0	18	13	13	18	14	13	2	2	0
1	17	2	4	2	2	3	4	1	0	16
19	3	0	3	5	0	3	3	17	18	4