	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	-1	-1	-1
elliptic	1	0	1	1	1	1	1	1	-1	-1	1
goldsteinprice	1	1	1	1	1	1	1	1	0	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	0	-1	1	1	-1	-1	-1
quadric	1	-1	-1	0	0	-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	0
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	0	0	-1	-1	-1	-1	-1	-1
schwefel2_22	1	0	1	1	1	1	1	1	-1	0	1
schwefel2_26	0	0	0	0	0	0	1	1	0	0	1
sixhump	1	1	1	0	1	1	1	1	0	0	0
spherical	1	0	0	1	1	1	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	0
-1	0	9	9	1	1	9	2	2	16	15	3
0	2	8	5	5	4	5	3	2	3	3	5
1	18	3	6	14	15	6	15	16	1	2	12

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bba.lbestgc	bba.spso	bba.vn	bba.vngc	)est.gbest(	gbest.lbest	gbest.lbestg	gbest.sps	gbest.vn	best.vng	gbestgc.lbest	gbestgc.lbestg	gbestgc.sps	gbestgc.vn
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
-1	-1	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	0	1	0	1	1	-1	0	-1	-1
1	-1	-1	-1	0	1	1	0	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	0	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	1	0	0	1	1	-1	1	1	1	1	-1	1
1	1	1	1	0	1	1	1	0	0	1	1	1	0
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
1	0	1	1	1	1	1	0	1	1	1	1	0	1
0	0	1	1	0	0	0	-1	1	1	0	0	-1	1
0	-1	1	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	1	1	1	1	1	0	1	1	1	1	-1	1
0	-1	-1	-1	0	1	1	-1	1	1	1	1	-1	1
4	16	7	6	0	0	0	11	0	0	1	0	13	1
4	2	2	4	16	4	3	5	1	1	3	4	2	1
12	2	11	10	4	16	17	4	19	19	16	16	5	18

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