	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	0	1	1	0	1	1	-1	-1	1
eggholder	0	-1	-1	-1	-1	-1	1	1	0	0	0
elliptic	1	0	0	1	1	1	1	1	-1	-1	1
goldsteinprice	1	1	1	1	1	1	1	1	-1	1	-1
griewank	1	0	0	1	1	0	1	1	-1	-1	1
levy	1	-1	-1	1	1	0	0	1	-1	-1	1
michalewicz	1	-1	-1	1	1	-1	1	1	-1	-1	-1
quadric	1	-1	-1	0	0	-1	-1	-1	-1	-1	-1
quartic	1	0	0	1	1	0	1	1	-1	-1	1
rastrigin	1	-1	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	0	-1	-1	0	0	-1	-1	-1	-1	-1	0
schwefel2_22	1	0	1	1	1	1	1	1	-1	0	1
schwefel2_26	0	0	0	0	0	-1	1	1	0	0	0
sixhump	1	1	1	0	0	0	1	1	0	0	0
spherical	1	0	0	1	1	0	1	1	-1	-1	1
step	1	0	0	1	1	-1	1	1	-1	0	1
zakharov	1	-1	-1	1	1	-1	1	1	-1	-1	0
-1	0	8	7	1	1	10	2	2	16	13	3
0	3	9	9	4	4	6	2	1	3	5	6
1	17	3	4	15	15	4	16	17	1	2	11

Sheet1

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	0	1	1	1	1	-1	1
0	0	0	0	0	0	0	-1	1	1	0	0	0	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	-1	-1	1	1	1	1	0	0	1	-1	0	-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	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	-1	1	1	0	1	1	0	1	1	1	1	0	1
0	-1	1	1	1	1	1	0	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	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	1	0	1
0	0	1	1	0	0	0	0	1	1	0	0	-1	1
0	-1	0	0	0	0	0	-1	0	0	0	0	-1	0
1	-1	1	1	0	1	1	0	1	1	1	1	0	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
3	15	7	6	0	0	0	9	1	0	1	0	12	1
5	3	3	3	14	3	3	7	2	2	3	4	5	2
12	2	10	11	6	17	17	4	17	18	16	16	3	17

bestgc.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	0	1	1	0
1	0	0	1	1	0	1	1	1	1	0
1	1	0	-1	-1	-1	-1	-1	-1	-1	0
0	1	-1	0	1	-1	-1	0	1	1	1
1	0	-1	-1	-1	-1	-1	-1	1	1	0
1	1	-1	-1	-1	-1	-1	-1	0	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	1	-1	-1	-1	-1	-1	-1	1	1	1
1	0	-1	1	1	-1	1	1	1	1	0
0	0	1	-1	-1	1	-1	-1	-1	-1	1
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	0
1	0	0	1	1	-1	1	1	1	1	0
0	0	-1	0	0	-1	0	0	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	1
0	0	16	13	13	18	14	13	2	2	0
3	15	3	4	3	1	3	3	1	0	16
17	5	1	3	4	1	3	4	17	18	4