

Original

1	10	1	-1	2	4	-42	-3	1	10
-8	12	-9	1	1	0	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	-32	1	18	1	1	1	-8	0
1	1	1	1	0	-1	1	-1	1	1
1	2	9	-5	1	-1	1	1	-1	1
1	1	-8	1	1	-1	0	1	0	0
1	1	1	1	-55	1	1	1	1	1
1	0	1	0	1	1	10	1	1	1
1	1	1	3	1	2	-1	-7	-1	0

Precomputation

1	11	12	11	13	17	-25	-28	-27	-17
-7	15	7	7	10	14	-27	-30	-28	-17
-6	15	8	9	13	18	-22	-24	-21	-9
-5	17	11	11	16	20	-19	-20	-16	-3
-4	19	-19	-18	5	10	-28	-28	-32	-19
-3	21	-16	-14	9	13	-24	-25	-28	-14
-2	24	-4	-7	17	20	-16	-16	-20	-5
-1	26	-10	-12	13	15	-21	-20	-24	-9
0	28	-7	-8	-38	-35	-70	-68	-71	-55
1	29	-5	-6	-35	-31	-56	-53	-55	-38
2	31	-2	0	-28	-22	-48	-52	-55	-38