

Swiss Games Solutions

**Game 1:** least integer  $\geq n^{1/2}$

4	25	6	2	11	99	8	53	67	21	62	44	122	33	220	410
2	5	3	2	4	10	3	8	9	5	8	7	12	6	15	21

**Game 2:** remainder when  $2n$  is divided by 15

3	7	11	22	8	23	29	34	31	19	27	18	60	13	21	35
6	14	7	14	1	1	13	8	2	8	9	6	0	11	12	10

**Game 3:**  $(-1)^n (n-6)$

10	18	9	19	42	23	35	98	2	5	3	0	-1	-4	-6	-17
4	12	-3	-13	36	-17	-29	92	-4	1	3	-6	7	-10	-12	23

**Game 4:** Twice the largest prime factor of  $n$

17	15	35	22	37	27	25	8	91	82	93	92	111	87	67	76
34	10	14	22	74	6	10	4	26	82	62	46	74	58	134	38