

Swiss Games Solutions

Game 1: $n + \text{sum of its even digits}$

| | | | | | | | | | | | | | | | |
|--------|----|----|----------------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|
| 5 2 | 63 | 35 | $\frac{47}{2}$ | 88 | 907 | 697 | 548 | 2014 | 998 | 559 | 682 | 497 | 694 | 793 | 888 |
| 5 4 | 69 | 35 | $\frac{47}{8}$ | 104 | 907 | 703 | 560 | 2020 | 1006 | 559 | 698 | 501 | 704 | 793 | 912 |

Game 2: $2n + 3$

| | | | | | | | | | | | | | | | |
|---|----|----|----|---------------|----|-----|----------------|----|-----|-----|------|----------------|----------------|----------------|----------------|
| 2 | 5 | -1 | 8 | $\frac{3}{2}$ | 11 | -17 | $\frac{5}{4}$ | 20 | 127 | -43 | -126 | $\frac{7}{4}$ | $\frac{11}{3}$ | $\frac{5}{-2}$ | $\frac{6}{-5}$ |
| 7 | 13 | 1 | 19 | 6 | 25 | -31 | $\frac{11}{2}$ | 43 | 257 | -83 | -249 | $\frac{13}{2}$ | $\frac{31}{3}$ | -2 | $\frac{3}{5}$ |

Game 3: $2 + \frac{1}{2^n}$

| | | | | | | | | | | | | | | | |
|---|---------------|---------------|----|----------------|-----------------|----|----|-----------------|------------------|----|----|-------------------|-------------------|-----|------|
| 0 | 1 | 2 | -1 | 3 | 4 | -2 | -3 | 5 | 6 | -5 | -6 | 7 | 8 | -8 | -10 |
| 3 | $\frac{5}{2}$ | $\frac{9}{4}$ | 4 | $\frac{17}{8}$ | $\frac{33}{16}$ | 6 | 10 | $\frac{65}{32}$ | $\frac{129}{64}$ | 34 | 66 | $\frac{257}{128}$ | $\frac{513}{256}$ | 258 | 1026 |

Game 4: Distance to nearest prime

| | | | | | | | | | | | | | | | |
|---|---|---|----|---|----|----|----|----|----|----|-----|----|----|----|-----|
| 0 | 1 | 3 | 10 | 7 | 26 | 15 | 16 | -1 | 42 | 39 | 109 | 64 | 76 | 93 | 106 |
| 2 | 1 | 0 | 1 | 0 | 3 | 2 | 1 | 3 | 1 | 2 | 0 | 3 | 3 | 4 | 1 |