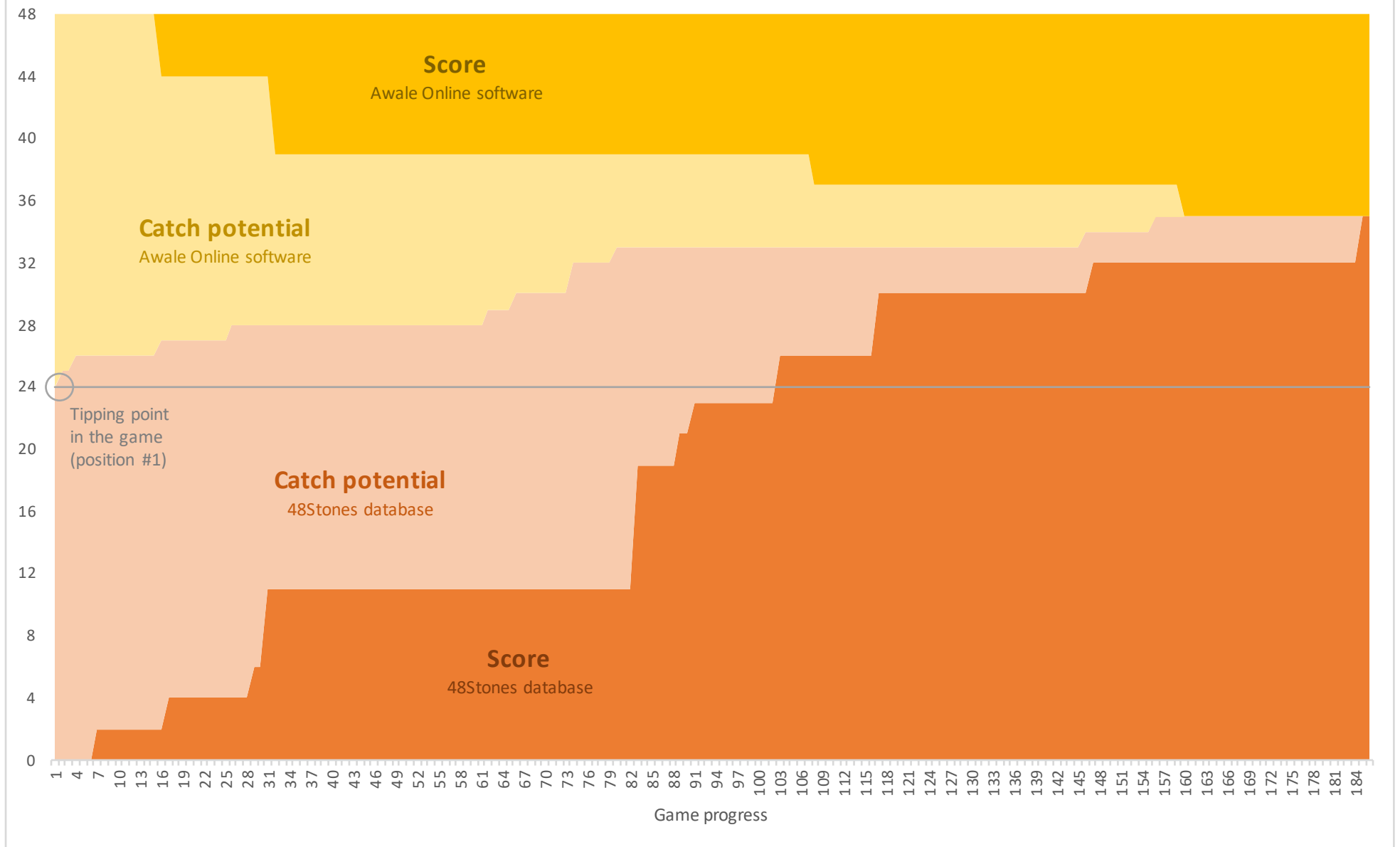


### Benchmark game - Awale Online (software) vs. 48Stones (database) (13-35) - Mar 14, 2021



# Benchmark game - Awale Online vs. 48Stones (13-35) - Mar 14, 2021

Awale Online settings: on a 2 x 2.66 GHz 6-Core Intel Xeon, 2 threads (program default, not configurable)

9

1	4	1	6	7	9	1	2
4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4

North: Awale Online program, South: 48Stones database - ▽: Best move, ☒: Worst move

10

2	10	1	6	7	10	-	2
4	5	-	4	4	4	4	4
4	5	5	5	4	4	4	4
	24	24	25	25	24	24	

The game is lost for North after this move

11

3	11	1	-	6	7	10	-
4	5	-	4	4	5	5	-
4	5	5	-	5	5	-	5

Not optimal move from North = regressing the max potential result by 1 seed

12

4	12	-	-	6	7	10	-
4	-	-	4	4	5	5	-
4	6	6	6	1	6	5	-
	24	25	24	26	25	24	

Reminder on notation: green means catching more than what the opponent can catch (i.e.  $x/2=xx$ )

13

5	13	-	-	6	7	10	1
4	-	-	4	4	5	5	-
4	6	6	6	-	7	5	-

14

6	14	-	-	6	7	11	-
4	1	1	5	5	6	-	-
4	6	6	6	-	7	5	-
	25	25	23	26	26		

Not catching with the 7-seed pit to keep max seed complexity for North, hence higher risk of errors

15

7	15	-	-	6	7	12	1
4	3	1	1	-	12	-	4
4	9	1	2	1	10	-	4
	23	23	23	22	19		

16

8	16	1	1	-	7	12	1
4	-	-	6	6	7	1	2
4	6	6	6	-	7	-	2
	24	24	24	23			

17

9	17	1	-	6	7	9	1
4	2	-	-	7	12	-	4
4	8	1	-	-	10	-	4
	21	23		11			

18

10	18	1	1	-	7	12	-
4	4	4	-	2	-	1	-
4	10	2	1	-	14	2	4
	15	19	24	22	18		

19

11	19	2	-	-	7	12	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	10	2	-	1	14	2	4

20

12	20	3	1	1	-	12	-
4	7	6	-	-	9	1	-
4	9	1	2	1	10	-	4
	23	23	23	22	19		

21

13	21	3	1	1	-	12	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	16	19	18	22	24		

22

14	22	3	2	-	-	12	-
4	9	1	-	2	11	-	4
4	9	1	-	2	11	-	4
	18	22	23	19			

23

15	23	4	3	1	2	-	1
4	4	4	-	2	1	-	-
4	10	2	-	1	14	2	4
	18	17	18	22			

24

16	24	4	3	1	2	-	1
4	5	5	1	3	-	-	11
4	11	3	1	2	-	2	11
	11	13	17	12			

25

17	25	6	-	1	3	-	-
4	8	1	-	-	10	1	-
4	8	1	-	-	10	1	-
	13	17	12				

26

18	26	6	-	1	3	-	-
4	2	-	-	7	12	-	4
4	8	1	-	-	10	-	4
	10	2	-	1	14	2	4

27

19	27	6	1	-	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

28

20	28	4	4	-	2	-	1
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

29

21	29	4	4	-	2	-	1
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

30

22	30	4	4	-	2	-	1
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

31

23	31	4	4	-	2	-	1
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

32

24	32	6	-	1	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

33

25	33	6	-	1	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

34

26	34	6	1	-	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

35

27	35	6	1	-	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

36

28	36	7	-	-	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

37

29	37	7	-	-	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

38

30	38	7	-	-	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

39

31	39	7	-	-	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

40

32	40	7	-	-	3	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

41

33	41	9	-	1	-	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

42

34	42	9	1	-	-	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

43

35	43	9	1	-	-	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

44

36	44	9	1	-	-	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

45

37	45	9	1	-	-	-	-
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4	10	2	-	1	14	2	4
	15	19	24	22	18		

46

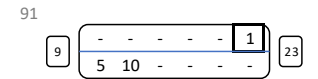
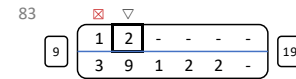
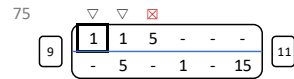
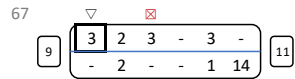
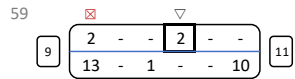
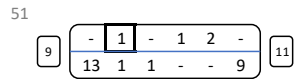
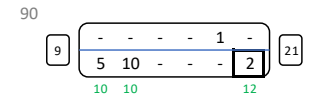
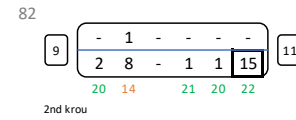
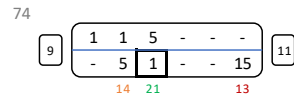
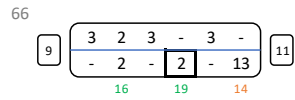
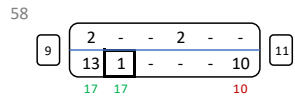
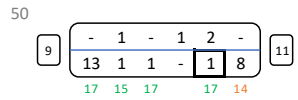
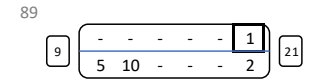
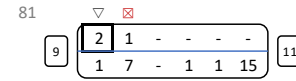
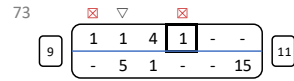
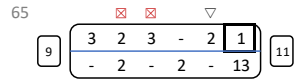
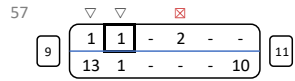
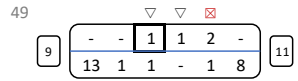
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4	10	2	-	1	14	2	4
	15	19	24	22	18		

47

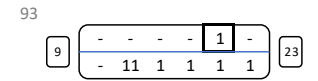
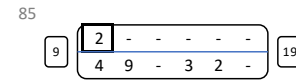
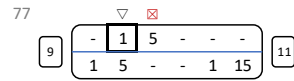
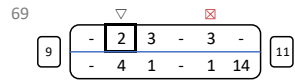
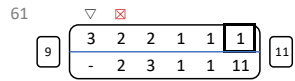
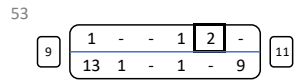
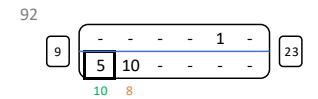
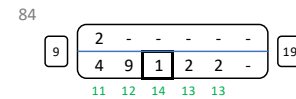
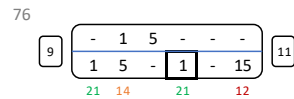
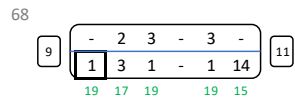
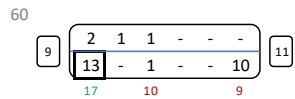
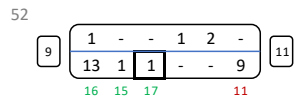
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4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

48

40	48	9	1	-	-	-	-
4	4	4	-	2	-	1	-
4	10	2	-	1	14	2	4
	15	19	24	22	18		

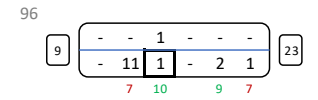
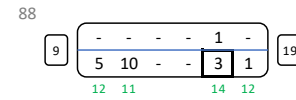
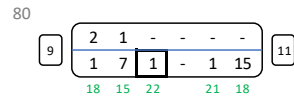
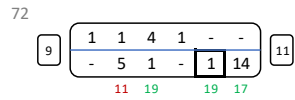
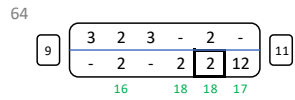
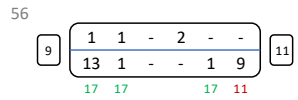
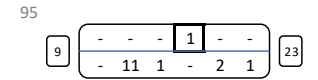
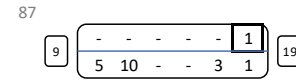
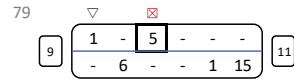
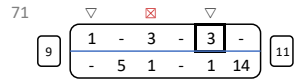
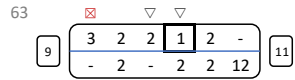
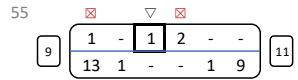
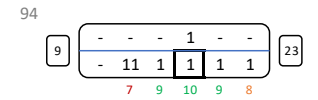
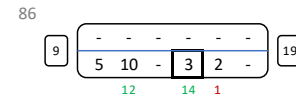
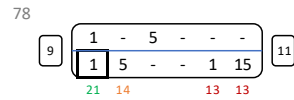
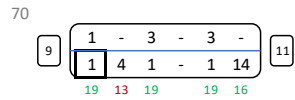
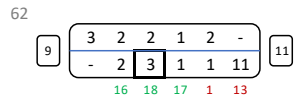
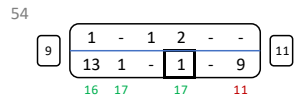


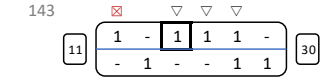
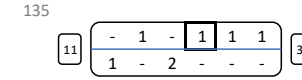
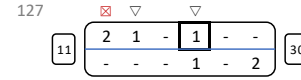
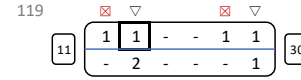
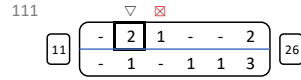
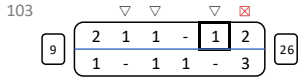
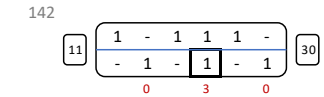
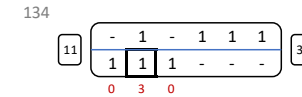
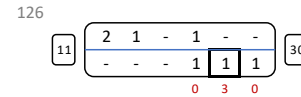
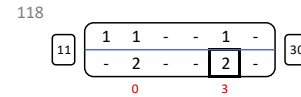
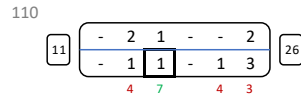
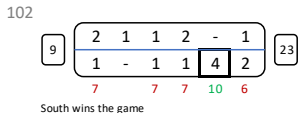
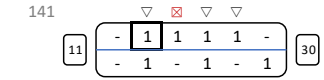
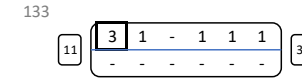
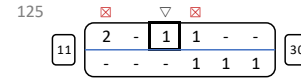
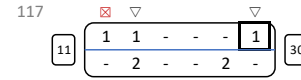
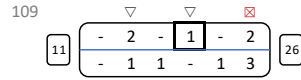
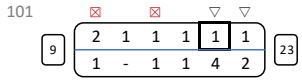
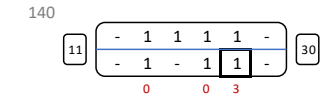
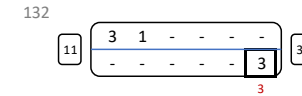
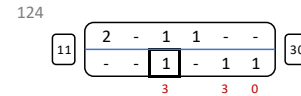
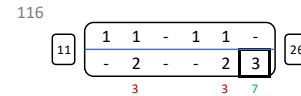
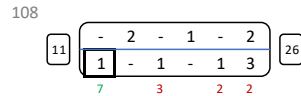
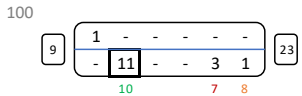
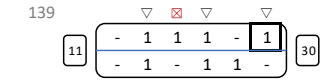
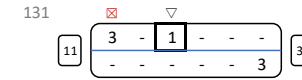
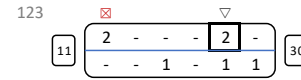
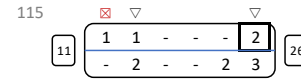
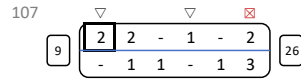
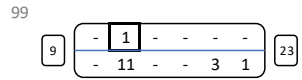
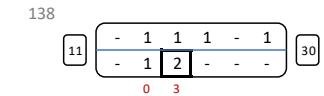
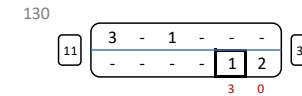
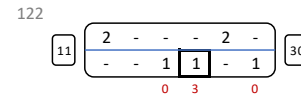
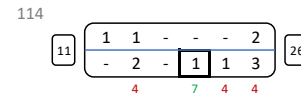
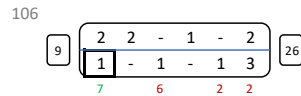
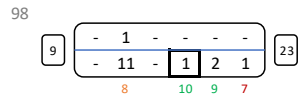
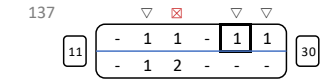
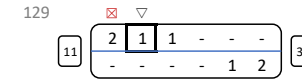
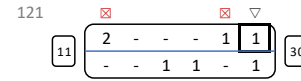
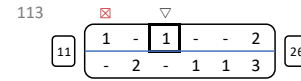
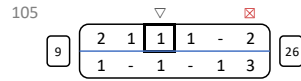
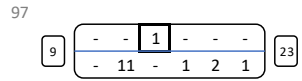
Whatever North plays, it will give the same potential result



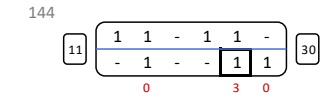
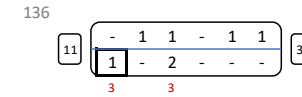
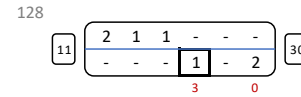
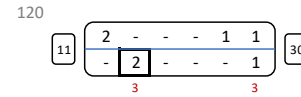
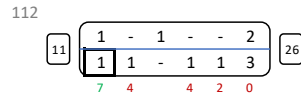
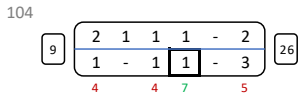
Whatever North plays, it will give the same potential result

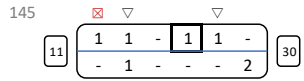
Not optimal move from North = regressing the max potential result by 1 seed



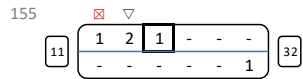
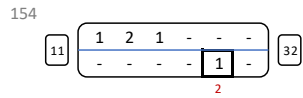
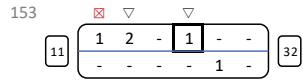
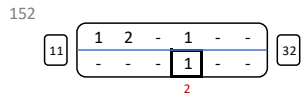
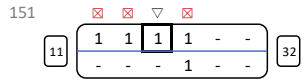
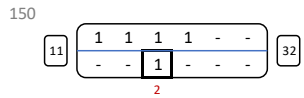
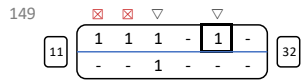
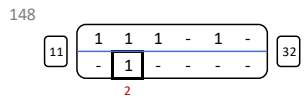
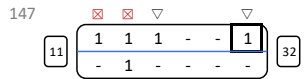
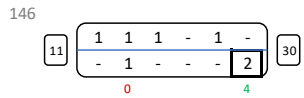


Whatever North plays, it will give the same potential result

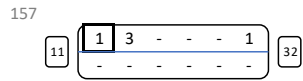
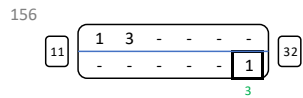




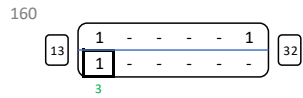
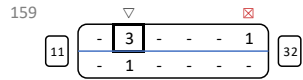
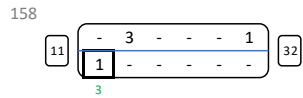
Not optimal move from North = regressing the max potential result by 1 seed



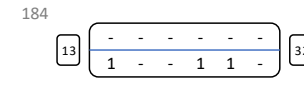
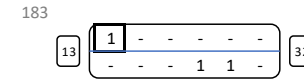
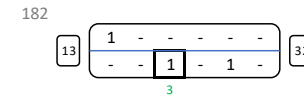
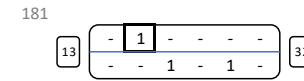
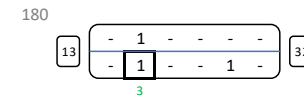
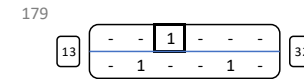
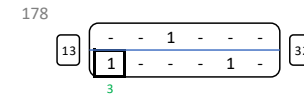
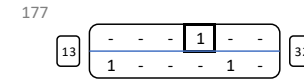
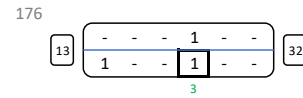
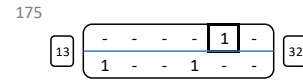
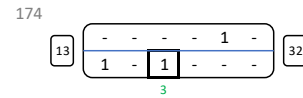
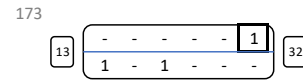
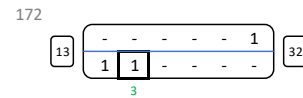
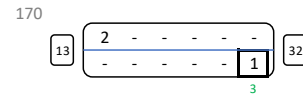
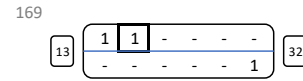
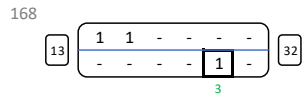
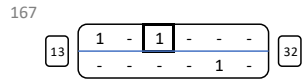
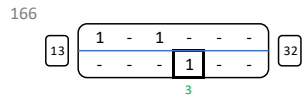
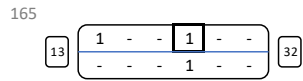
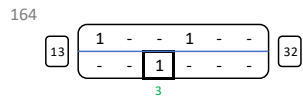
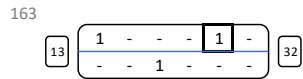
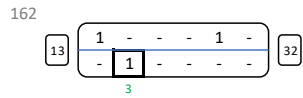
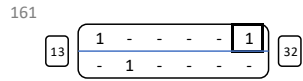
Remarkable position. Not optimal move from North = regressing the max potential result by 1 seed



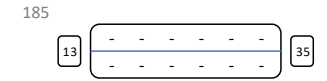
Whatever North plays, it will give the same potential result



No more catch potential for North



Starving position. South gets the 3 remaining seeds



North: 13  
South: 35