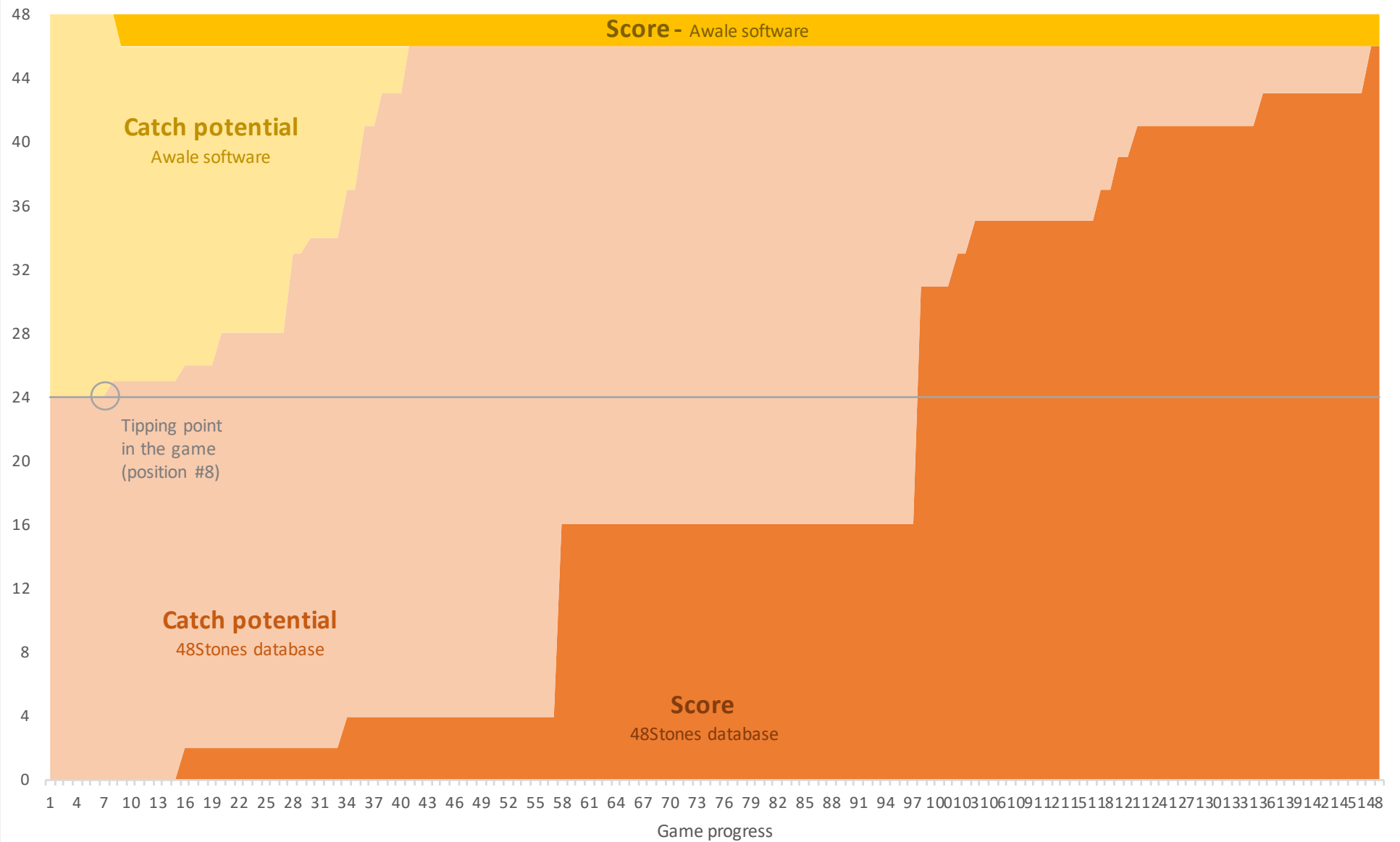


Benchmark game - 48Stones (database) vs. Awale (software, 30 sec. max) (46-2) - Feb 2, 2021



Benchmark game - 48Stones vs. Awale (46-2) - Feb 2, 2021

Awale settings: Max. computation time: 30 seconds (min. possible, on a 2.66 GHz CPU, 1 thread), Analysis depth: 25 (max. possible)

1 North: Awale program
South: 48Stones database

2 ▽: Best move
⊗: Worst move

3

4

5

6

7

8 The game is lost for North after this move

9 Reminder on notation: green means catching more than what the opponent can catch (i.e. 46/2=23)

10

11

12

13 Not catching with the 8-seed pit to keep max seed complexity for North, hence higher risk of errors

14

15

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

17

18

19

20 Not optimal move from North = regressing the max potential result by 2 seeds

21

22

23

24

25

26

27

28 Not optimal move from North = regressing the max potential result by 5 seeds

29

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

31

32

33

34 Not optimal move from North = regressing the max potential result by 3 seeds

35

36

37

38 Not optimal move from North = regressing the max potential result by 2 seeds

39

40 Not optimal move from North = regressing the max potential result by 3 seeds = No more catch possible

41

42

43

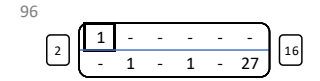
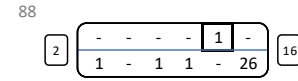
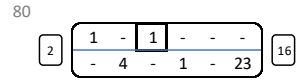
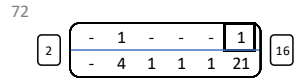
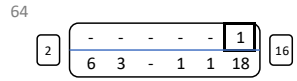
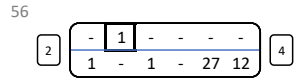
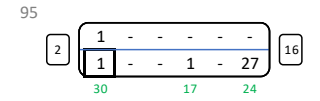
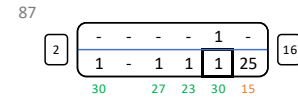
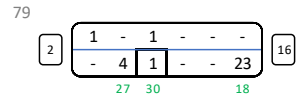
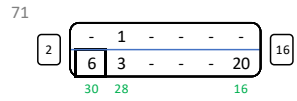
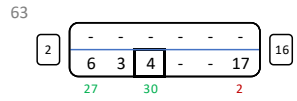
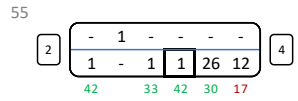
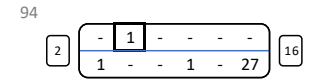
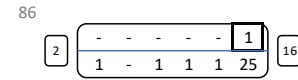
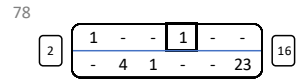
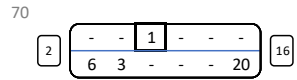
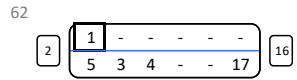
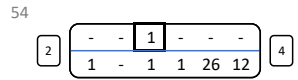
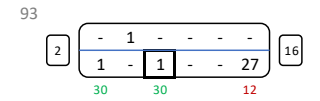
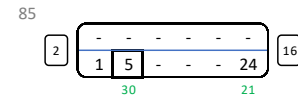
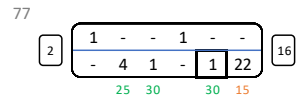
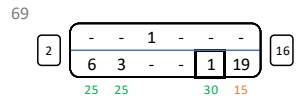
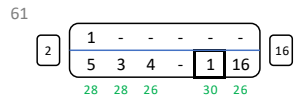
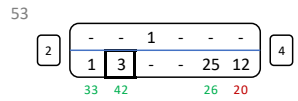
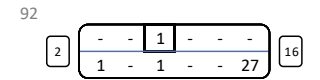
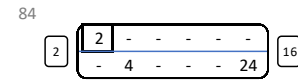
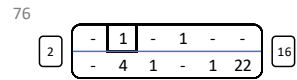
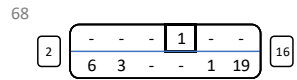
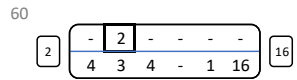
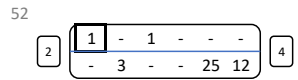
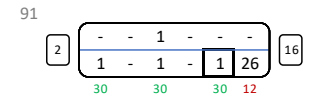
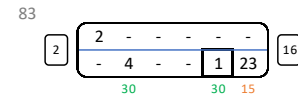
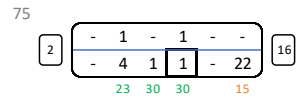
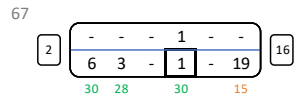
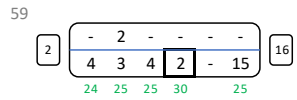
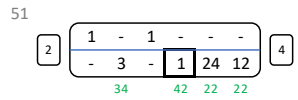
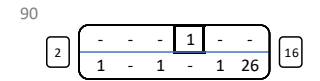
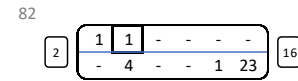
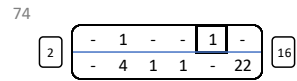
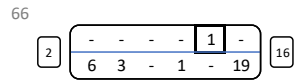
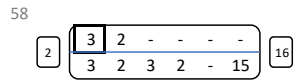
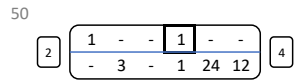
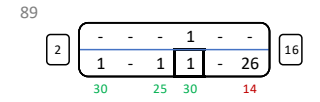
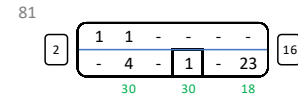
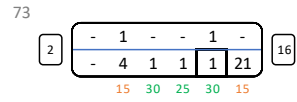
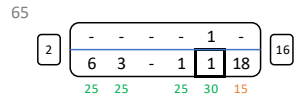
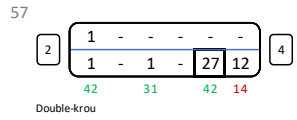
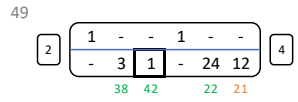
44

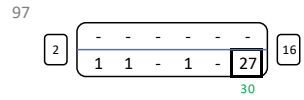
45

46

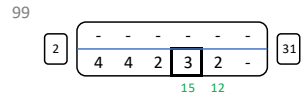
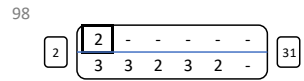
47

48

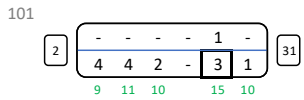
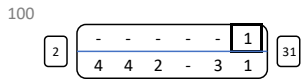




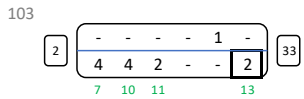
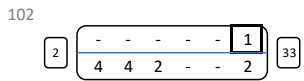
Second (perfect) double-krou
South wins the game



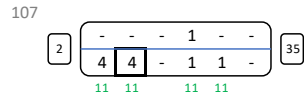
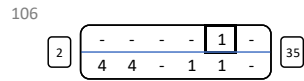
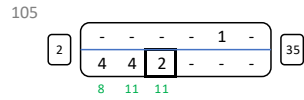
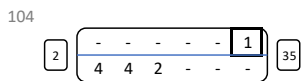
3-2-0 tail with repeated catch (k2)



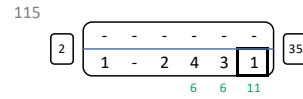
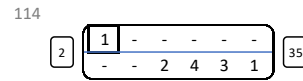
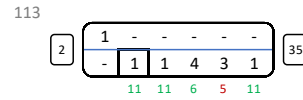
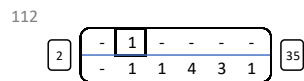
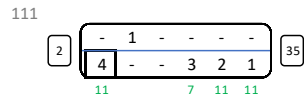
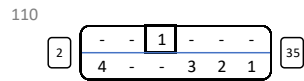
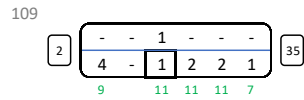
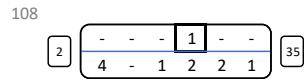
Catch #1



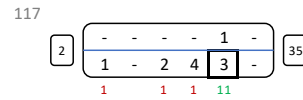
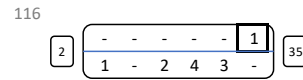
Catch #2



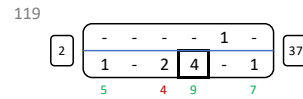
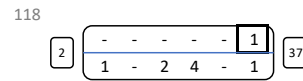
Preparing tail with repeated catch



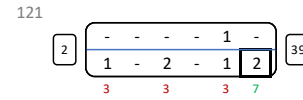
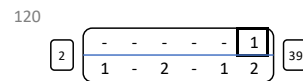
4-3-1 tail with repeated catch (x3)



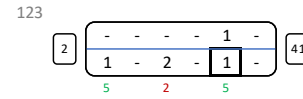
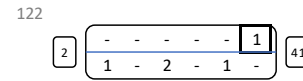
Catch #1



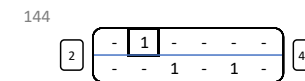
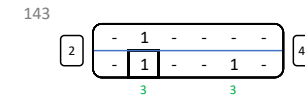
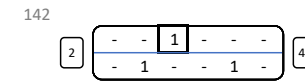
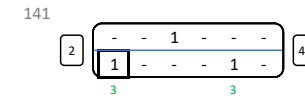
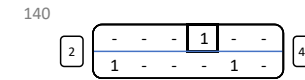
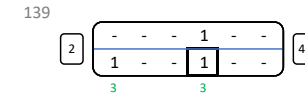
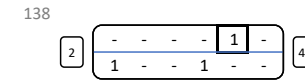
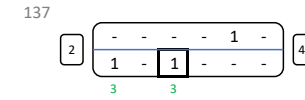
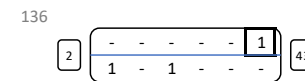
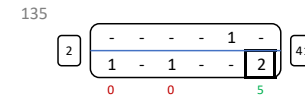
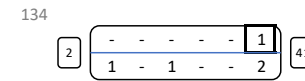
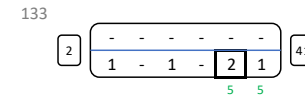
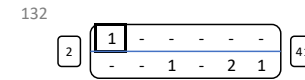
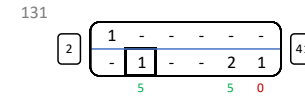
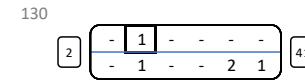
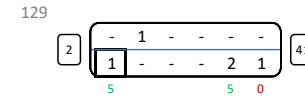
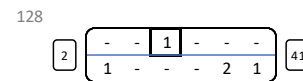
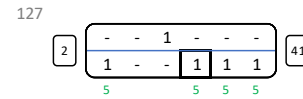
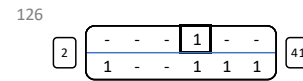
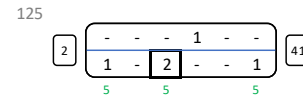
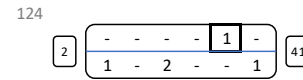
Catch #2



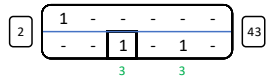
Catch #3



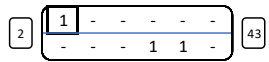
Preparing a catching tail 2-1



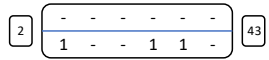
145



146



147



Starving position. South gets the 3 remaining seeds

148



North: 2
South: 46