# War Game

## BOARD : Keren.txt

### Match Type:

Minimax Vs MiniMax

Player 1 Score = 15

Player 2 Score = 21

Final Board State :

B G B G B G

G B G B G B

B G G G G G

G G B G G G

G B G G G B

B G B B B B

=================================

P1 SCORE : 15

P2 SCORE : 21

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 194736

P1 Average Move Time : 106.0

P2 Average Move Time : 97.0

Winner is GREEN

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 10

Player 2 Score = 26

B G B G B G

G B G B G B

B G G G G G

G G B G G G

G B G G G G

B G G G G G

=================================

P1 SCORE : 10

P2 SCORE : 26

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 9892

P2 Average Nodes Expanded per Move : 9144

P1 Average Move Time : 3.0

P2 Average Move Time : 3.0

Winner is GREEN

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 14

Player 2 Score = 22

B G B G B G

G B G B G B

B G G G G G

G G B G G G

G B B B G G

B B B G G G

=================================

P1 SCORE : 14

P2 SCORE : 22

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 9144

P1 Average Move Time : 53.0

P2 Average Move Time : 1.0

Winner is GREEN

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 10

Player 2 Score = 26

B G B G B G

G B G B G B

B G G G G G

G G B G G G

G B G G G G

B G G G G G

=================================

P1 SCORE : 10

P2 SCORE : 26

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 9892

P2 Average Nodes Expanded per Move : 9144

P1 Average Move Time : 22.0

P2 Average Move Time : 1.0

Winner is GREEN

Game Over

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> DONE <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

>>>>>>>>>>>>>>>>>>>>>>>>game\_boards/Narvik.txt<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

99 1 99 1 99 1

1 99 1 99 1 99

99 1 99 1 99 1

1 99 1 99 1 99

99 1 99 1 99 1

1 99 1 99 1 99

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 704

Player 2 Score = 1096

B B B G G B

B B B G G G

B B G G G B

B B G G G G

B B G G G B

G B B G B G

=================================

P1 SCORE : 704

P2 SCORE : 1096

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 194736

P1 Average Move Time : 11.0

P2 Average Move Time : 59.0

Winner is GREEN

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 998

Player 2 Score = 802

B B B B G G

G B B G G G

B B B G G B

G B B B G G

B B B G G G

G G B B G G

=================================

P1 SCORE : 998

P2 SCORE : 802

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 20085

P2 Average Nodes Expanded per Move : 19450

P1 Average Move Time : 3.0

P2 Average Move Time : 124.0

Winner is BLUE

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 1689

Player 2 Score = 111

B G B B B G

G B B B G G

B B B B B G

G B G B B B

B G B G B G

B B G B G B

=================================

P1 SCORE : 1689

P2 SCORE : 111

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 19700

P1 Average Move Time : 151.0

P2 Average Move Time : 3.0

Winner is BLUE

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 998

Player 2 Score = 802

B B B B G G

G B B G G G

B B B G G B

G B B B G G

B B B G G G

G G B B G G

=================================

P1 SCORE : 998

P2 SCORE : 802

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 20085

P2 Average Nodes Expanded per Move : 19450

P1 Average Move Time : 23.0

P2 Average Move Time : 2.0

Winner is BLUE

Game Over

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> DONE <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

>>>>>>>>>>>>>>>>>>>>>>>>game\_boards/Sevastopol.txt<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

1 1 1 1 1 1

2 2 2 2 2 2

4 4 4 4 4 4

8 8 8 8 8 8

16 16 16 16 16 16

32 32 32 32 32 32

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 226

Player 2 Score = 152

B B B B B B

B B B B B B

B B B B B B

G B B B B B

G G B B G B

G B B G B G

=================================

P1 SCORE : 226

P2 SCORE : 152

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 194736

P1 Average Move Time : 31.0

P2 Average Move Time : 54.0

Winner is BLUE

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 226

Player 2 Score = 152

B B B B B B

B B B B B B

B B B B B B

G B B B B B

G G B B G B

G B B G B G

=================================

P1 SCORE : 226

P2 SCORE : 152

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 189158

P2 Average Nodes Expanded per Move : 164083

P1 Average Move Time : 29.0

P2 Average Move Time : 167.0

Winner is BLUE

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 226

Player 2 Score = 152

B B B B B B

B B B B B B

B B B B B B

G B B B B B

G G B B G B

G B B G B G

=================================

P1 SCORE : 226

P2 SCORE : 152

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 164083

P1 Average Move Time : 35.0

P2 Average Move Time : 49.0

Winner is BLUE

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 226

Player 2 Score = 152

B B B B B B

B B B B B B

B B B B B B

G B B B B B

G G B B G B

G B B G B G

=================================

P1 SCORE : 226

P2 SCORE : 152

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 189158

P2 Average Nodes Expanded per Move : 164083

P1 Average Move Time : 51.0

P2 Average Move Time : 35.0

Winner is BLUE

Game Over

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> DONE <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

>>>>>>>>>>>>>>>>>>>>>>>>game\_boards/Smolensk.txt<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

66 76 28 66 11 9

31 39 50 8 33 14

80 76 39 59 2 48

50 73 43 3 13 3

99 45 72 87 49 4

80 63 92 28 61 53

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 535

Player 2 Score = 1118

B G G G G G

G G B G G G

G G B B G G

G G B G B G

G G G G G B

B G B B B G

=================================

P1 SCORE : 535

P2 SCORE : 1118

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 194736

P1 Average Move Time : 34.0

P2 Average Move Time : 248.0

Winner is GREEN

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 776

Player 2 Score = 877

G G G B B G

G G B B B B

B G B B B B

G B G G B B

G G B B G B

G G G G B B

=================================

P1 SCORE : 776

P2 SCORE : 877

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 61560

P2 Average Nodes Expanded per Move : 68478

P1 Average Move Time : 28.0

P2 Average Move Time : 6.0

Winner is GREEN

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 1107

Player 2 Score = 546

G B B G B G

G G B B B B

G B B G B G

B B B G G B

B G B G B B

B B B B B B

=================================

P1 SCORE : 1107

P2 SCORE : 546

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 94317

P1 Average Move Time : 57.0

P2 Average Move Time : 26.0

Winner is BLUE

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 776

Player 2 Score = 877

G G G B B G

G G B B B B

B G B B B B

G B G G B B

G G B B G B

G G G G B B

=================================

P1 SCORE : 776

P2 SCORE : 877

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 61560

P2 Average Nodes Expanded per Move : 68478

P1 Average Move Time : 28.0

P2 Average Move Time : 6.0

Winner is GREEN

Game Over

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> DONE <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

>>>>>>>>>>>>>>>>>>>>>>>>game\_boards/Westerplatte.txt<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

1 1 1 1 1 1

1 3 4 4 3 1

1 4 2 2 4 1

1 4 2 2 4 1

1 3 4 4 3 1

1 1 1 1 1 1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 31

Player 2 Score = 41

B B B G G B

B B B G G G

G B B B G B

G G B B G B

G G B G G G

G G G B G G

=================================

P1 SCORE : 31

P2 SCORE : 41

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 194736

P1 Average Move Time : 269.0

P2 Average Move Time : 11.0

Winner is GREEN

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 33

Player 2 Score = 39

B B B B G G

B B B G G G

B B G G G G

B G B G B G

G B G B G G

B G B G G G

=================================

P1 SCORE : 33

P2 SCORE : 39

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 39703

P2 Average Nodes Expanded per Move : 39228

P1 Average Move Time : 29.0

P2 Average Move Time : 6.0

Winner is GREEN

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Minimax Vs AlphaBeta \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 44

Player 2 Score = 28

B B G B G G

B B B G G G

B B B B B G

B B B B G B

G B B G G G

B B B G G G

=================================

P1 SCORE : 44

P2 SCORE : 28

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 217740

P2 Average Nodes Expanded per Move : 41949

P1 Average Move Time : 34.0

P2 Average Move Time : 29.0

Winner is BLUE

Game Over

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* AlphaBeta Vs Minimax \*\*

Player = BLUE's turn

Player = BLUE

Player 1 Score = 33

Player 2 Score = 39

B B B B G G

B B B G G G

B B G G G G

B G B G B G

G B G B G G

B G B G G G

=================================

P1 SCORE : 33

P2 SCORE : 39

P1 Move Count : 18

P2 Move Count : 18

P1 Average Nodes Expanded per Move : 39703

P2 Average Nodes Expanded per Move : 39228

P1 Average Move Time : 30.0

P2 Average Move Time : 5.0

Winner is GREEN

Game Over

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> DONE <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<