The most win board:

[[ 18 5 7]

[9 8 16]

[ 7 10 12]]

The win time is: 31176

Summary of the result: out of 10,000 games of 10,000 boards, the boards with most winning time is 31176, and the board as vector is [18,5,7,8,8,16,7,10,12]

Please see more details in code with comment.