Result

This script evaluates the performance of the custom heuristic function by

comparing the strength of an agent using iterative deepening (ID) search with

alpha-beta pruning against the strength rating of agents using other heuristic

functions. The `ID\_Improved` agent provides a baseline by measuring the

performance of a basic agent using Iterative Deepening and the "improved"

heuristic (from lecture) on your hardware. The `Student` agent then measures

the performance of Iterative Deepening and the custom heuristic against the

same opponents.

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Evaluating: ID\_Improved

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Playing Matches:

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Match 1: ID\_Improved vs Random Result: 82 to 18

Match 2: ID\_Improved vs MM\_Null Result: 70 to 30

Match 3: ID\_Improved vs MM\_Open Result: 54 to 46

Match 4: ID\_Improved vs MM\_Improved Result: 39 to 61

Match 5: ID\_Improved vs AB\_Null Result: 62 to 38

Match 6: ID\_Improved vs AB\_Open Result: 62 to 38

Match 7: ID\_Improved vs AB\_Improved Result: 54 to 46

Results:

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ID\_Improved 60.43%

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Evaluating: Student Robinson

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Playing Matches:

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Match 1: Student Robinson vs Random Result: 84 to 16

Match 2: Student Robinson vs MM\_Null Result: 70 to 30

Match 3: Student Robinson vs MM\_Open Result: 58 to 42

Match 4: Student Robinson vs MM\_Improved Result: 53 to 47

Match 5: Student Robinson vs AB\_Null Result: 70 to 30

Match 6: Student Robinson vs AB\_Open Result: 66 to 34

Match 7: Student Robinson vs AB\_Improved Result: 62 to 38

Results:

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Student Robinson 66.14%

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Evaluating: Student Jun Shou

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Playing Matches:

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Match 1: Student Jun Shou vs Random Result: 84 to 16

Match 2: Student Jun Shou vs MM\_Null Result: 74 to 26

Match 3: Student Jun Shou vs MM\_Open Result: 59 to 41

Match 4: Student Jun Shou vs MM\_Improved Result: 55 to 45

Match 5: Student Jun Shou vs AB\_Null Result: 71 to 29

Match 6: Student Jun Shou vs AB\_Open Result: 70 to 30

Match 7: Student Jun Shou vs AB\_Improved Result: 60 to 40

Results:

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Student Jun Shou 67.57%

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Evaluating: Student Hao Siong

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Playing Matches:

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Match 1: Student Hao Siong vs Random Result: 86 to 14

Match 2: Student Hao Siong vs MM\_Null Result: 77 to 23

Match 3: Student Hao Siong vs MM\_Open Result: 55 to 45

Match 4: Student Hao Siong vs MM\_Improved Result: 51 to 49

Match 5: Student Hao Siong vs AB\_Null Result: 68 to 32

Match 6: Student Hao Siong vs AB\_Open Result: 66 to 34

Match 7: Student Hao Siong vs AB\_Improved Result: 59 to 41

Results:

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Student Hao Siong 66.00%

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Evaluating: Student Marina

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Playing Matches:

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Match 1: Student Marina vs Random Result: 87 to 13

Match 2: Student Marina vs MM\_Null Result: 65 to 35

Match 3: Student Marina vs MM\_Open Result: 52 to 48

Match 4: Student Marina vs MM\_Improved Result: 40 to 60

Match 5: Student Marina vs AB\_Null Result: 70 to 30

Match 6: Student Marina vs AB\_Open Result: 58 to 42

Match 7: Student Marina vs AB\_Improved Result: 57 to 43

Results:

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Student Marina 61.29%