TCG HW. 2 Result

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Grading Policy: Overall

- The homework is composed of 3 parts, baseline performance, report and bonus.
- Your baseline performances are worth 10 points in total.
  - 0 point(s): Simple Random Agent (SRA)
  - 5 point(s): Simple Greedy Agent (SGA)
  - 5 point(s): Simple Conservative Agent (SCA)
- Your report is worth 5 points in total.
  - 2 Point(s): Algorithm and Heuristics Implemented
  - 2 Point(s): Experiment Result and Finding
  - 1 Point(s): Observation on Tree Search and Improvement
- Bonus part will be further explained.

Grading Policy: Game Execution

- Each round means 2 games with alternating first for each player.
- Win a game: 1 point, Lose a game: -1 point, draw a game 0 point.
- Let S be your score of a round, $S \in \{-1, -2, 0, 1, 2\}$.

Submission: Format

- Directory Hierarchy
  - [your_id] (lowercase)
    - `src`
    - `makefile`
    - `report.pdf`
- Your execution file should be named with your student ID, with all alphabets in lower case, e.g., b08902000, not B08902000.

Submission: Penalty

- Let your raw score be R, with your submission $\lceil d \rceil$ days late
- Your final score will be $R \times 0.7^{\lceil d \rceil}$
- 0.5 points will be deducted if at least one of the following situation occurs when judging your submission
  - Incorrect executable name
  - Makefile not under correct directory
  - Cannot open `report.pdf`
- **Please make sure your format is correct for your final project.**

Submission: Overall

- Total Submission: 21
- Enhancement:
  - RAVE: 3
  - Progressive Pruning: 19
- Format Incorrect Submission: 7

Report: Requirement

- Your report is worth 5 points in total.
  - Part 0 - 2 Point(s), Algorithm and Heuristics Implemented
  - Part 1 - 2 Point(s), Experiment Result and Finding
  - Part 2 - 1 Point(s), Observation on Tree Search and Improvement
- -0.4 points if you **do not mention any** Algorithm or Heuristics
- -0.4 points if you **do not mention any** Experiment or Finding
- -0.1 points if you **do not mention any** observation on Tree Search
- -0.1 points if you **do not mention any** observation on Improvements

Report: Requirement (cont.)

- Let your raw report score be r, and the final report score be R
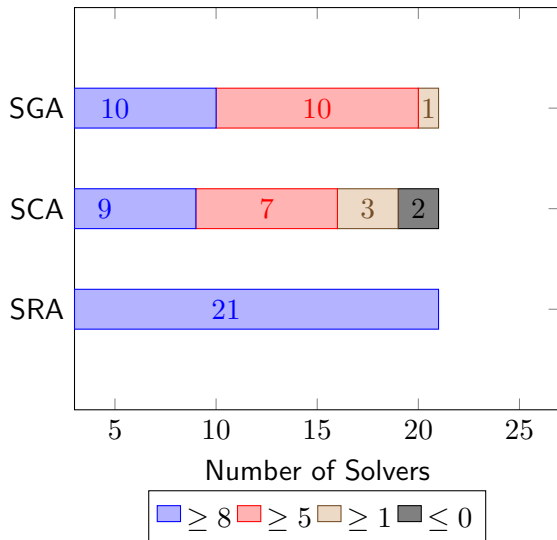- $R = max(5, r + Effort)$

Report: Requirement (cont.)

- Let your raw report score be r, and the final report score be R
- $R = max(5, r + Effort)$
- Gladly, everyone showed some effort!

Report: Requirement (cont.)

- Let your raw report score be r, and the final report score be R
- $R = max(5, r + Effort)$
- Gladly, everyone showed some effort!
- So overall no points were deducted on report score.
- **Please make sure your final project report fulfills the requirements**

Baseline: Definition

- Against each baseline we will conduct a 5-round competition.
  - Baseline0 - Have a net-score **more than** zero againt SRA.
  - Baseline1 - Have a net-score **no less than** zero against SCA.
  - Baseline2 - Have a net-score **no less than** zero against SGA.
- Bonus: One bonus point is awarded if you have a net-score **strictly more than** 2 against the SGA.
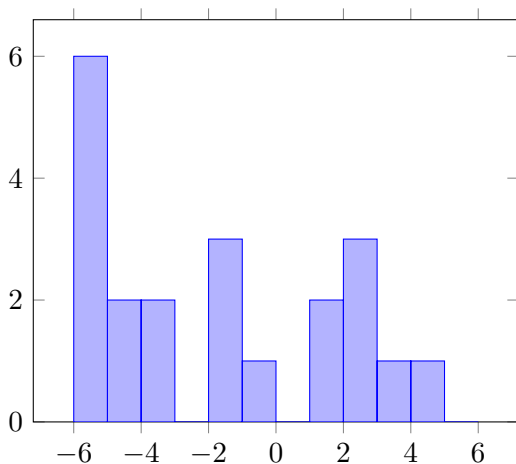
Baseline: Performance

VSB: Overall

- This part of bonus is worth at most 3 points.
- Each participant have a 3-round game against the VSB
- Let net-score against VSB be W
- Additional bonus points will be $\min(\max(W, 0), 3)$
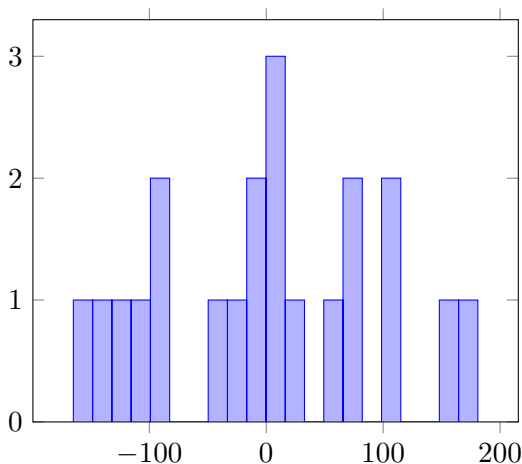
VSB: Net-Score Distribution

Min: -6, Max: 4, Avg: -2.2

Peer Competition: Overall

- This part of bonus is worth at most 4 points.
- Let there be N participants in this homework, ($N = 21$)
- 1 Bonus Point: Have a net-score **strictly more than** $5 \times (N - 1)$
- Extra point(s) are awarded for top 7 participants.
  - 3 Point(s): Rank 1, 2
  - 2 Point(s): Rank 3, 4
  - 1 Point(s): Rank 5, 6, 7

Peer Competition: Net-Score Distribution

Min: -165, Max: 181, Avg: 0, Median: 5, Stdev: 98.07

Peer Competition: Winner

Congrats to all winners and Great effort from all participants!

Peer Competition: Winner

Congrats to all winners and Great effort from all participants!

- No. 5, 6, 7, (respectively): 張元, 李若綱, 林溥博

Peer Competition: Winner

Congrats to all winners and Great effort from all participants!

- No. 5, 6, 7, (respectively): **張元**, **李若綱**, **林溥博**
- No. 3, 4 (respectively): **賴岳群**, **王柏翔**,

Peer Competition: Winner

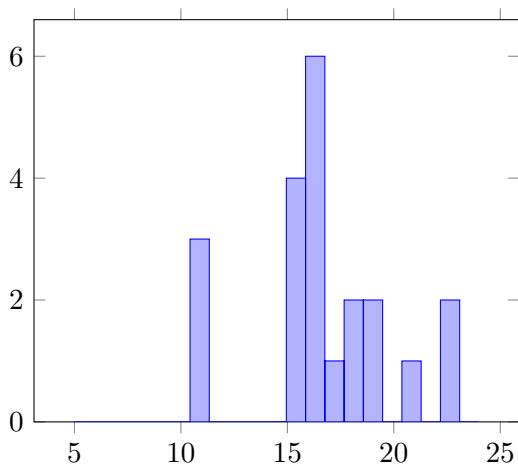Congrats to all winners and Great effort from all participants!

- No. 5, 6, 7, (respectively): 張元, 李若綱, 林溥博
- No. 3, 4 (respectively): 賴岳群, 王柏翔,
- No. 2: Yen-百謙

Peer Competition: Winner

Congrats to all winners and Great effort from all participants!

- No. 5, 6, 7, (respectively): 張元, 李若綱, 林溥博
- No. 3, 4 (respectively): 賴岳群, 王柏翔,
- No. 2: Yen-百謙
- No. 1: 林建甫

Overall: Score Distribution

Avg: 15.72, Median: 16