**Wumpus World Final AI Report**

**Team name**

**Member #1 (name/id)**  **Member #2 (name/id or N/A)**

*[Delete this line.] You are obliged to use Times New Roman font, size 12.* ***Do not exceed two pages total.***

*[Delete this passage]* ***Write a brief description of the algorithms used for your Minimal, Draft, and Final AI, together with a table of each AI’s performance on random caves in {4x4, 5x5, 6x6, 7x7}. For each cave size do: (a) run your AI on 1,000 or more random caves and record scores; (b) calculate the mean and standard deviation of the scores; (c) calculate the 99% confidence interval about the mean; and (d) record your results in the tables below, showing one significant figure to the right of the decimal point. (The items in red are filled with fictitious entries (in red) as an example of the format required for your entry. Delete the fictitious red numbers or text, and replace them with numbers from your project.)***

**I. Minimal AI**

**I.A. Briefly describe your Minimal AI algorithm:**

*[Delete this passage.] Take as much room as you need. The total report may not exceed two pages. ‘Weighted {Mean/Standard Deviation/99% Confidence Interval}’ means to weight the contribution of each line by its ‘Sample size’. If all Sample sizes are equal, the easy and preferred case, then simply combine all populations.*

**I.B. Describe your Minimal AI algorithm’s performance:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Cave Size** | **Sample size** | **Mean Score** | **Standard Deviation** | **99% Confidence Interval** |
| **4x4** | **1,000** | **253.3** | **15.9** | **253.3 ± 1.3** |
| **5x5** |  |  |  |  |
| **6x6** |  |  |  |  |
| **7x7** |  |  |  |  |
| **Total Summary** | **Sum of above** | **Weighted Mean** | **Weighted Std. Dev.** | **Weighted Conf. Intvl.** |

**II. Draft AI**

**II.A. Briefly describe your Draft AI algorithm, focusing mainly on the changes since Minimal AI:**

*[Delete this passage.] Take as much room as you need. The total report may not exceed two pages. See above.*

**II.B. Describe your Draft AI algorithm’s performance:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Cave Size** | **Sample size** | **Mean Score** | **Standard Deviation** | **99% Confidence Interval** |
| **4x4** | **1,000** | **253.3** | **15.9** | **253.3 ± 1.3** |
| **5x5** |  |  |  |  |
| **6x6** |  |  |  |  |
| **7x7** |  |  |  |  |
| **Total Summary** | **Sum of above** | **Weighted Mean** | **Weighted Std. Dev.** | **Weighted Conf. Intvl.** |

**III. Final AI**

**III.A. Briefly describe your Final AI algorithm, focusing mainly on the changes since Draft AI:**

*[Delete this passage.] Take as much room as you need. The total report may not exceed two pages. See above.*

**III.B. Describe your Final AI algorithm’s performance:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Cave Size** | **Sample size** | **Mean Score** | **Standard Deviation** | **99% Confidence Interval** |
| **4x4** | **1,000** | **253.3** | **15.9** | **253.3 ± 1.3** |
| **5x5** |  |  |  |  |
| **6x6** |  |  |  |  |
| **7x7** |  |  |  |  |
| **Total Summary** | **Sum of above** | **Weighted Mean** | **Weighted Std. Dev.** | **Weighted Conf. Intvl.** |

**IV. In about 1/4 page of text or less, provide suggestions for improving this project.**