

Pronto Documentation

Overview

This Agent is based on "ioh" from the 4th International Ai Werewolf Competition. There are statements that are inappropriate and should not be taken seriously in normal werewolf games, but are treated seriously by current agents. Some examples are the random and baseless voting declarations in the early days and the repeated reporting of the medium's results. We focused on such statements and attempted to improve the system. We designed the system so that agents do not take seriously inappropriate statements by other agents and, on the contrary, actively make inappropriate statements to advantage oneself.

Environment

Development environment : JDK11

path: org.aiwolf.pronto.ProntoRoleAssignPlayer

Algorithm

Role estimation

Random voting declarations in the early days are not well-grounded, so we will lighten the weight of their effect on the role estimation. Specifically, on the first turn of Day 1, only 5% of the impact of voting declarations on Day 3 and beyond will be affected, and thereafter the impact will gradually increase at a gradient of 10%, 15%, and so on as the turns progress.

VILLAGER

This agent doesn't vote on the first day for an agent who came out that it is Seer(SeerCOagent).

SEER

Coming out is preferred over a full open proposal.

If there is SeerCOagent, this agent makes a statement that that agent's medium result was a Werewolf.

MEDIUM

Coming out is preferred over a full open proposal.

If there is MediumCOagent, this agent makes a statement that that agent's medium result was a Werewolf.

BODYGUARD

If there is BodyguardCOagent, make a statement that that agent's medium result was a Werewolf.

WEREWOLF

Coming out is preferred over a full open proposal.

This agent makes a statement that medium result of agents who is not Werewolf. The order of priority is: first is SeerCOagent, second is MediumCOagent, third is BodyguardCOagent, and fourth is the agent who doesn't come out his own role. This medium result report is made regardless of the role of this agent's CO.

POSSESSED

Coming out is preferred over a full open proposal.