Creation day: 2023/08/17

Author: Ryuta Shiina

Agent Documentation of Gotsumori

for the 5th International AI Werewolf Competition

1. Overview

This Agent was created based on Basket, the winner of the 4th International AI Werewolf Competition. In making improvements, I aimed to increase the win rate of the werewolf camp by improving the behavior of the werewolf camp.

2. Environment

Development environment: JDK11

path: org.aiwolf.Gotsumori.GotsumoriRoleAssignPlayer

3. Algorithm

3.1. VILLAGER

Added a statement asking for a full opening on the first turn according to probability. In addition, the ratio of statements such as "think agent X is a werewolf" is increased in the first half of each day and the ratio of statements such as "will to vote" and "request a vote" are increased in the second half of each day.

3.2. SEER

Added features similar to villagers.

3.3. MEDIUM

Added features similar to villagers.

3.4. BODYGUARD

Added features similar to villagers.

3.5. WEREWOLF

Lower probability of medium CO and as the villager, added a statement asking for a full opening on the first turn according to probability. I addition, changed to CO after day 2 and not CO on the first day when cheating on a

role. Furthermore,

3.6. POSSESSED

Higher probability of seer CO and lower probability of medium CO. As well as the villager, added a statement asking for a full opening on the first turn according to probability. In addition, slightly higher probability of voting for someone who isn't a werewolf. Furthermore, changed to always say statements such as "divined agent X and it was a werewolf." for agents who look like villagers when cheating as a fortune seer.