# Report Assignment 4 Yazeed Alsuboh

Heuristics used in the utility function:

## • stones\_in\_left\_pit

 This heuristic encourages the agent to keep stones in the leftmost pit to prevent the opponent from capturing them.

## • stones\_in\_pit

 This heuristic encourages the agent to keep as many stones in the pits as possible.

## non\_empty\_pits

 This heuristic encourages the agent to spread stones across multiple pits to make it harder for the opponent to capture them.

#### new\_stones\_in\_store

 This heuristic encourages the agent to make moves that result in more stones being placed in the store.

# new\_stones\_in\_opponent\_store

 This heuristic encourages the agent to make moves that don't result in more stones being placed in the opponent store.

#### free turn

 This heuristic encourages the agent to make moves that result in a free turn.

# captured

 This heuristic encourages the agent to make moves that result in capturing opponent stones.

### • store\_difference

 This heuristic encourages the agent to make moves that result in a larger difference between the two stores, as this will result in a higher score for the current player.