**Data for the “Implicit Counterfactual Effect in Partial Feedback Reinforcement Learning” Study**

The dataset contains four stimuli coded as {1, 2, 3, 4}. The associations with rewards and the corresponding names in the paper are as follows:

• (A1, B) = (1, 3)

• (A2, C) = (2, 4)

A1 and A2 are associated with rewards from the same distribution, N(64, 13), while B and C are associated with rewards from two different distributions, N(54, 13) and N(44, 13), respectively.

**Data Structures**

**table\_learning:**

• **Variables:** condition, stimLeft, stimRight, action, chosen, rewLeft, rewRight, RT

• **condition:** Indicates whether the pair is (1, 3) or (2, 4)

• **stimLeft:** Stimulus on the left

• **stimRight:** Stimulus on the right

• **action:** Side chosen (1 for left, 2 for right)

• **chosen:** Name of the chosen stimulus

• **rewLeft:** Reward of the left stimulus

• **rewRight:** Reward of the right stimulus

• **RT:** Reaction time of the decision

**table\_transfer:**

• **Variables:** stimLeft, stimRight, action, chosen, conf, RT\_choice, RT\_conf

• **stimLeft:** Stimulus on the left

• **stimRight:** Stimulus on the right

• **action:** Side chosen (1 for left, 2 for right)

• **chosen:** Name of the chosen stimulus

• **conf:** Value of confidence

• **RT\_choice:** Reaction time of choice

• **RT\_conf:** Reaction time of confidence reporting

**table\_estimate:**

• **Variables:** stim, estimate, RT

• **stim:** Stimulus number on the screen

• **estimate:** Estimated value

• **RT:** Reaction time of estimation