



Percepts:

- 1| Clap
- 2| Clap
- 3| Pet
- 4| Clap
- 5| Bump
- 6| Pet
- 7| Pet
- 8| Clap

Percept Sequences

S_1] Clap $w=1$

S_2] $S_2^1 = \text{clap clap}$

$w=3$

$S_2^2 = \text{clap clap}$

$w=1 \quad w=1$

$w=2$

S_3] clap clap
pet

$S_3^1 = \text{clap clap pet}$

$w=10$

$S_3^2 = \text{clap clap pet}$

$w=3 \quad w=4$

$w=7$

$S_3^3 = \text{clap clap pet}$

$w=1 \quad w=1 \quad w=4$

$w=6$

which has
best $w=?$

$w=10$

Percept Sequence:

1. [Clap] weight=1

2. [Clap, Clap] $w=3$

3. [Pet][Pet] $w=13$

4. [Pet] $w=4$

5. [Clap][Pet] $w=8$

6. [Clap][Clap][Bump] $w=12$

7. [Clap][Clap][Pet] $w=10$

8. [Clap][Bump] $w=15$

Actions:

Meow

Walk

Purr

Stop

Purr, Walk

Walk, Meow, Stop

Walk, Stop, Purr, Walk

Walk, Blink, Stop

S_4] clap $w=1$

S_5] clap bump

$w=15$

$S_5 \rightarrow \text{Walk, Blink, Stop}$

S_6] Pet $w=4$

S_7] $S_7^1: \text{Pet Pet}$

$w=13$

$S_7 \rightarrow \text{Walk, Blink, Stop}$

$S_7^2: \text{Pet Pet}$
 $w=8$

S_8] Clap $w=1$

Total cost:
 $10 + 15 + 13 + 1$
 $= 39$