Elves_state_diagram

Elves Workflow

```
         ●
         Start
         │
         ▼
   Toy_Construction
         │
    Problem arises
         │
         ▼
  Problem_Identification
         │
     Deploy feeler
         │
         ▼
   Feeler_Deployment
         │
     Collect feeler
         │
         ▼
   Feeler_Collection
         │
         ▼
         ◇
        / \
sleep_time >= others_sleep_time    sleep_time < others_sleep_time
      /                               \
  Elf_Waiting                      Chain_Formation
                                         │
                                   Chain formed?
                                         │
                                   Chain_Completion
                                         │
                                         ◇
                                        / \
                              Chain is complete    Chain is incomplete
                                      /
Consult Santa                        /
         \                          /
          Santa_Consultation ◄─────
```

Start → Toy_Construction

Toy_Construction — Problem arises → Problem_Identification

Problem_Identification — Deploy feeler → Feeler_Deployment

Feeler_Deployment — Collect feeler → Feeler_Collection

Feeler_Collection → ◇

◇ — sleep_time >= others_sleep_time → Elf_Waiting

◇ — sleep_time < others_sleep_time → Chain_Formation

Chain_Formation — Chain formed? → Chain_Completion

Chain_Completion → ◇

◇ — Chain is complete → Santa_Consultation

◇ — Chain is incomplete → Feeler_Deployment

Problem_Identification — Consult Santa → Santa_Consultation