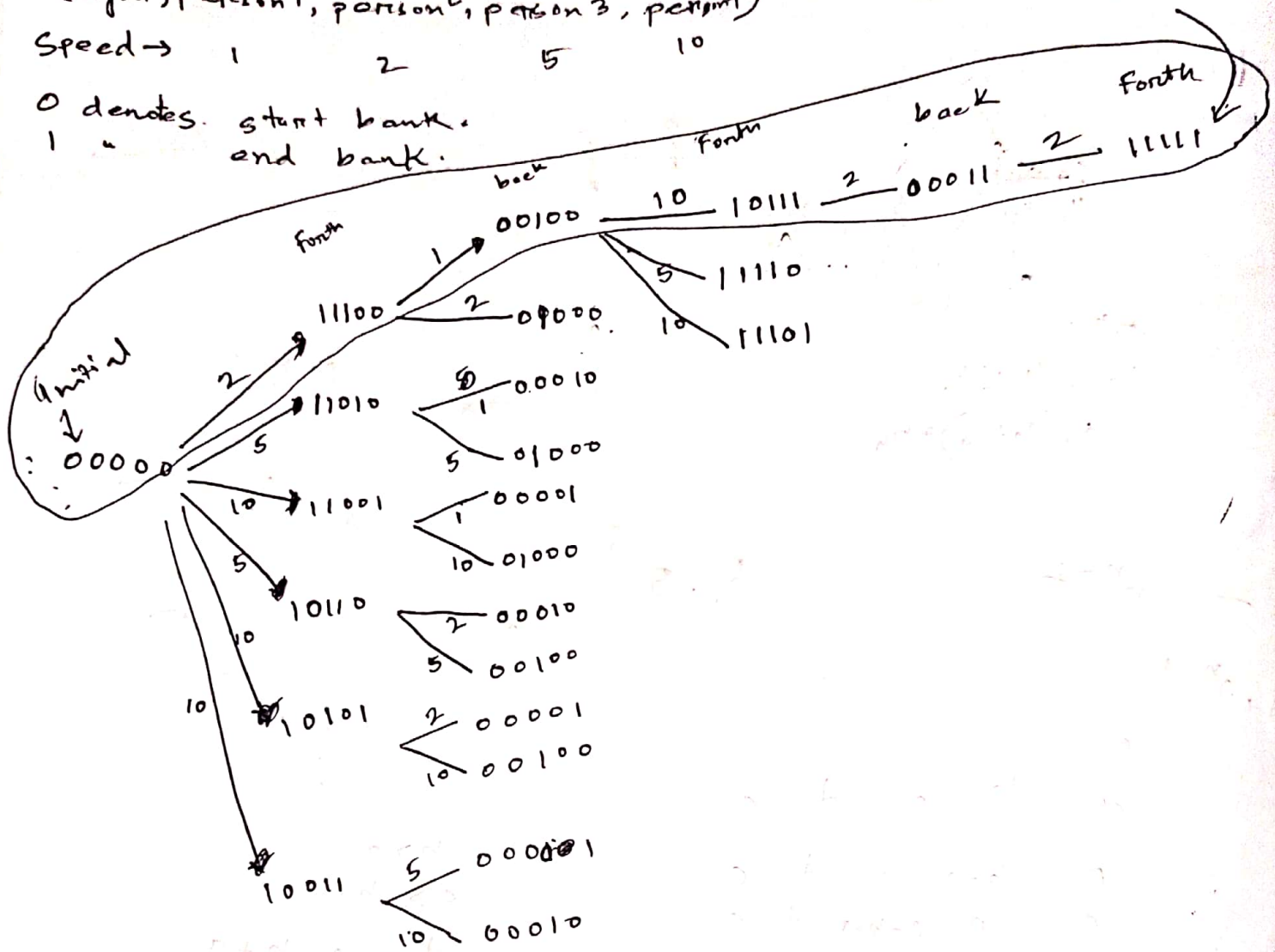


bit positions

(light, person1, person2, person3, person4)

Speed → 1 2 5 10

0 denotes start bank.
1 " end bank.



It is possible.

(~~cost~~ and transitions)

Not all states are given. Transitions that were not shown, can be pruned logically.

Shortest path is shown.

1 and 2 go with light. (2 min)

1 gets back with light (1 min)

5 and 10 go with light (10 min)

2 gets back with light (2 min)

1 and 2 go go with light (2 min)

Total = 17 min