Typescript

Here I will display the valid input of each program.

faneuil

The program will not stop until you type in `Ctrl + c`

```
//input
./faneuil

//output
Spectator #0 enter
Spectator #1 enter
Spectator #0 spectate
Immigrant #0 enter
Spectator #1 spectate
Immigrant #0 checkIn
Immigrant #0 sitDown
Spectator #0 leave
Spectator #1 leave
Spectator #2 enter
Immigrant #1 enter
Spectator #2 spectate
Spectator #2 leave
Judge #0 enter
Immigrant #1 checkIn
Immigrant #1 sitDown
Judge #0 confirm the immigrant #0
Judge #0 confirm the immigrant #1
Immigrant #0 swear
Immigrant #1 swear
Immigrant #1 getCertificate
Judge #0 leave
Judge #1 enter
Immigrant #0 getCertificate
Judge #1 leave
Spectator #3 enter
Immigrant #1 leave
Immigrant #2 enter
Immigrant #0 leave
Spectator #4 enter
Spectator #3 spectate
Immigrant #3 enter
Spectator #3 leave
Spectator #4 spectate
Immigrant #2 checkIn
Immigrant #4 enter
```

```
Spectator #5 enter
Judge #2 enter
Immigrant #2 sitDown
Immigrant #3 checkIn
Spectator #4 leave
Immigrant #3 sitDown
Spectator #5 spectate
   ......
```

santa

This program will not stop until you type in `Ctrl + c` or it circles for 30 times.

```
//input
./santa

//output
Reindeer: waiting (1)
Reindeer: waiting (2)
Elf: waiting (1)
Elf: waiting (2)
Reindeer: waiting (3)
Elf: waiting (3)
Elves call Santa
Santa: help elves
Elf: get help
Elf: get help
Elf: get help
Reindeer: waiting (4)
Reindeer: waiting (5)
Reindeer: waiting (6)
Reindeer: waiting (7)
Reindeer: waiting (8)
Elf: waiting (1)
Reindeer: waiting (9)
Reindeer 9 calls Santa.
Santa: preparing sleigh
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Elf: waiting (2)
Elf: waiting (3)
Elves call Santa
Santa: help elves
Elf: get help
```

```
Elf: get help
Elf: get help
Reindeer: waiting (1)
Reindeer: waiting (2)
Reindeer: waiting (3)
Reindeer: waiting (4)
Reindeer: waiting (5)
Reindeer: waiting (6)
Reindeer: waiting (7)
Reindeer: waiting (8)
Elf: waiting (1)
Elf: waiting (2)
Elf: waiting (3)
Elves call Santa
Santa: help elves
Elf: get help
Elf: get help
Elf: get help
Reindeer: waiting (9)
Reindeer 9 calls Santa.
Santa: preparing sleigh
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Elf: waiting (1)
Elf: waiting (2)
Elf: waiting (3)
Elves call Santa
Santa: help elves
Elf: get help
Elf: get help
Elf: get help
Reindeer: waiting (1)
Elf: waiting (1)
Elf: waiting (2)
Elf: waiting (3)
Elves call Santa
Santa: help elves
Elf: get help
Elf: get help
Elf: get help
Reindeer: waiting (2)
Reindeer: waiting (3)
Reindeer: waiting (4)
Reindeer: waiting (5)
Reindeer: waiting (6)
```

```
Reindeer: waiting (7)
Reindeer: waiting (8)
Reindeer: waiting (9)
Reindeer 9 calls Santa.
Santa: preparing sleigh
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: getting hitched
Reindeer: waiting (1)
Elf: waiting (1)
Reindeer: waiting (2)
Elf: waiting (2)
Elf: waiting (3)
Elves call Santa
Santa: help elves
Elf: get help
Elf: get help
Elf: get help
......
```