

Sleeping Barber Homework 03: Report

Chris Bohlman

Machine used: oxford

Java Command Used: java Barber <Number of customers> <Haircut time> <Time between customer arrival> <Number of waiting chairs>

Default values for missing args:

numCustomers = 25;

haircutTime = 7.0f;

timeBetweenCustomers = 4.0f;

waitingCustomerChairs = 3;

Notes:

I spelled the word receive wrong in the output. I would go back and change it, but I'm irrationally scared that my program will break if I do that. And on this schedule, I can't have that.

If 4 arguments are not present in any capacity, the program will default to its default values.

Examples of command line usage:

- **Default args: `java Barber`**

```
Barber is open for business!
Customer 0 has entered the building.
Customer 0 is in the barber chair.
Customer 1 has entered the building.
Customer 1 is waiting to recieve a haircut. Total customers waiting: 1
Customer 0's haircut is finished.
Customer 0 has left with their hair cut.
Customer 1 is in the barber chair.
Customer 2 has entered the building.
Customer 2 is waiting to recieve a haircut. Total customers waiting: 1
Customer 3 has entered the building.
Customer 3 is waiting to recieve a haircut. Total customers waiting: 2
Customer 1's haircut is finished.
Customer 1 has left with their hair cut.
Customer 2 is in the barber chair.
Customer 4 has entered the building.
```

Customer 4 is waiting to receive a haircut. Total customers waiting: 2
Customer 5 has entered the building.
Customer 5 is waiting to receive a haircut. Total customers waiting: 3
Customer 2's haircut is finished.
Customer 2 has left with their hair cut.
Customer 3 is in the barber chair.
Customer 6 has entered the building.
Customer 6 is waiting to receive a haircut. Total customers waiting: 3
Customer 7 has left, the line was too long!
Customer 3's haircut is finished.
Customer 3 has left with their hair cut.
Customer 4 is in the barber chair.
Customer 8 has entered the building.
Customer 8 is waiting to receive a haircut. Total customers waiting: 3
Customer 4's haircut is finished.
Customer 4 has left with their hair cut.
Customer 5 is in the barber chair.
Customer 9 has entered the building.
Customer 9 is waiting to receive a haircut. Total customers waiting: 3
Customer 10 has left, the line was too long!
Customer 5's haircut is finished.
Customer 5 has left with their hair cut.
Customer 6 is in the barber chair.
Customer 11 has entered the building.
Customer 11 is waiting to receive a haircut. Total customers waiting: 3
Customer 12 has left, the line was too long!
Customer 6's haircut is finished.
Customer 6 has left with their hair cut.
Customer 8 is in the barber chair.
Customer 13 has entered the building.
Customer 13 is waiting to receive a haircut. Total customers waiting: 3
Customer 14 has left, the line was too long!
Customer 8's haircut is finished.
Customer 8 has left with their hair cut.
Customer 9 is in the barber chair.
Customer 15 has entered the building.
Customer 15 is waiting to receive a haircut. Total customers waiting: 3
Customer 9's haircut is finished.
Customer 9 has left with their hair cut.
Customer 11 is in the barber chair.
Customer 16 has entered the building.
Customer 16 is waiting to receive a haircut. Total customers waiting: 3
Customer 17 has left, the line was too long!
Customer 11's haircut is finished.
Customer 11 has left with their hair cut.
Customer 13 is in the barber chair.
Customer 18 has entered the building.
Customer 18 is waiting to receive a haircut. Total customers waiting: 3
Customer 19 has left, the line was too long!

Customer 13's haircut is finished.
Customer 13 has left with their hair cut.
Customer 15 is in the barber chair.
Customer 20 has entered the building.
Customer 20 is waiting to recieve a haircut. Total customers waiting: 3
Customer 21 has left, the line was too long!
Customer 15's haircut is finished.
Customer 15 has left with their hair cut.
Customer 16 is in the barber chair.
Customer 22 has entered the building.
Customer 22 is waiting to recieve a haircut. Total customers waiting: 3
Customer 16's haircut is finished.
Customer 16 has left with their hair cut.
Customer 18 is in the barber chair.
Customer 23 has entered the building.
Customer 23 is waiting to recieve a haircut. Total customers waiting: 3
Customer 24 has left, the line was too long!
Customer 18's haircut is finished.
Customer 18 has left with their hair cut.
Customer 20 is in the barber chair.
Customer 20's haircut is finished.
Customer 20 has left with their hair cut.
Customer 22 is in the barber chair.
Customer 22's haircut is finished.
Customer 22 has left with their hair cut.
Customer 23 is in the barber chair.
Customer 23's haircut is finished.
Customer 23 has left with their hair cut.
Barber is all done with hair cutting!

- **`java Barber 10 1 1 2`**

Barber is open for business!
Customer 0 has entered the building.
Customer 0 is in the barber chair.
Customer 1 has entered the building.
Customer 0's haircut is finished.
Customer 1 is waiting to recieve a haircut. Total customers waiting: 1
Customer 0 has left with their hair cut.
Customer 2 has entered the building.
Customer 1 is in the barber chair.
Customer 1's haircut is finished.
Customer 3 has entered the building.
Customer 3 is in the barber chair.
Customer 2 is in the barber chair.
Customer 2 has left with their hair cut.
Customer 4 has entered the building.
Customer 4 is in the barber chair.
Customer 2's haircut is finished.
Customer 4's haircut is finished.

Customer 3 has left with their hair cut.
Customer 1 has left with their hair cut.
Customer 5 has entered the building.
Customer 5 is waiting to recieve a haircut. Total customers waiting: 1
Customer 4's haircut is finished.
Customer 4 has left with their hair cut.
Customer 5 is in the barber chair.
Customer 6 has entered the building.
Customer 6 is waiting to recieve a haircut. Total customers waiting: 1
Customer 5's haircut is finished.
Customer 5 has left with their hair cut.
Customer 6 is in the barber chair.
Customer 7 has entered the building.
Customer 7 is waiting to recieve a haircut. Total customers waiting: 1
Customer 6's haircut is finished.
Customer 6 has left with their hair cut.
Customer 7 is in the barber chair.
Customer 8 has entered the building.
Customer 8 is waiting to recieve a haircut. Total customers waiting: 1
Customer 7's haircut is finished.
Customer 7 has left with their hair cut.
Customer 8 is in the barber chair.
Customer 9 has entered the building.
Customer 9 is waiting to recieve a haircut. Total customers waiting: 1
Customer 8's haircut is finished.
Customer 8 has left with their hair cut.
Customer 9 is in the barber chair.
Customer 9's haircut is finished.
Customer 9 has left with their hair cut.
Barber is all done with hair cutting!