**DOCUMENTATIE**

*TEMA 2*

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**Cuprins**

1. Obiectivul temei
2. Analiza problemei, modelare, scenarii, cazuri de utilizare
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**1.Obiectivul temei**

1.1 Obiectivul principal al temei este de a implementa un simulator de cozi care sa perminta utilizatorului sa simuleze si sa analizeze comportamentul unui system de cozi cu diverse scenarii.

1.2 Obiective secundare:

-implementarea unei interfete pentru configurarea si afisarea simularii

-utilizarea unor algoritmi eficienti pentru gestionarea cozilor si a clientilor

-generarea unui fisier de log pentru inregistrarea evenimentelor din timpul simularii

**2.Analiza problemei, modelare, scenarii, cazuri de utilizare**

**Cerinte functionale**:

-configuarea parametrilor simularii, cum ar fi numarul de clienti, numarul de cozi

-simularea comportamentului clientilor si al cozilor in timp real

-afisarea rezultatelor simularii, inclusive a timpului de asteptare mediu al clientilor

**Cerinte non-functionale**:

-interfata utilizatorului trebuie sa fie intuitiva si usor de utilizat

-simulare eficienta, sa permita gestionarea corecta a resurselor

-fisier log usor de inteles

**Use case**:

Utilizatorul va configura parametrii simularii in interfata grafica a simulatorului de cozi si va observa evolutia sistemului de cozi in timp real. Va analiza rezultatele si va utiliza fisierul de log pentru a se observa in detaliu comportamentul sistemului.

**3.Proiectare**

**3.1 Diagrama UML de clase**

**A screenshot of a computer program

Description automatically generated**

**3.2 Structuri de date**

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-utilizat pentru a gestiona clientii care asteapta in cozi

****

-utilizat pentru a reprezenta cozile disponibile in system

**3.4 Algoritmi**

-algoritmul de simulare a comportamentului clientilor si al cozilor in timpul simularii, pentru determinarea minimului

**4.Implementare**

A computer screen shot of a program

Description automatically generated

Clasa Client retine informatii despre fiecare client, respectiv despre timpii lor.

A screen shot of a computer

Description automatically generated

Clasa Queue care defineste o coada de clienti.

A screen shot of a computer program

Description automatically generated

Clasa Simulation care reprezinta datele de intrare citite, cat si array-urile folosite pentru rezolvarea cerintei.

**5.Testare**

1.in:  
numberOfClients=4  
numberOfQueues=2  
maxSimulationTime=60  
minArrivalTime=2  
maxArrivalTime=30  
minServiceTime=2  
maxServiceTime=4

out:

Clients : 4  
Queues : 2  
MAX Simulation : 60  
MIN Arrival Time : 2  
MAX Arrival Time : 30  
MIN Service Time : 2  
MAX Service Time : 4  
Clients:  
Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
  
  
Time: 1  
Waiting clients: Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 2  
Waiting clients: Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 3  
Waiting clients: Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 4  
Waiting clients: Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 5  
Waiting clients: Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 6  
Waiting clients: Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 7  
Waiting clients: Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 8  
Waiting clients: Client: id=1, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 9  
Waiting clients: Client: id=2, arrivalTime=9, serviceTime=4, waitingTime=0  
Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Client: id=1, arrivalTime=8, serviceTime=1, waitingTime=1  
  
Queue2: Closed  
--------------------------------  
  
Time: 10  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Client: id=2, arrivalTime=9, serviceTime=3, waitingTime=1  
  
--------------------------------  
  
Time: 11  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Client: id=2, arrivalTime=9, serviceTime=2, waitingTime=2  
  
--------------------------------  
  
Time: 12  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Client: id=2, arrivalTime=9, serviceTime=1, waitingTime=3  
  
--------------------------------  
  
Time: 13  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 14  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 15  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 16  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 17  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 18  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 19  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 20  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 21  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 22  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 23  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 24  
Waiting clients: Client: id=3, arrivalTime=24, serviceTime=2, waitingTime=0  
Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 25  
Waiting clients: Client: id=4, arrivalTime=25, serviceTime=4, waitingTime=0  
  
Queue1: Client: id=3, arrivalTime=24, serviceTime=1, waitingTime=1  
  
Queue2: Closed  
--------------------------------  
  
Time: 26  
Waiting clients:   
Queue1: Closed  
Queue2: Client: id=4, arrivalTime=25, serviceTime=3, waitingTime=1  
  
--------------------------------  
  
Time: 27  
Waiting clients:   
Queue1: Closed  
Queue2: Client: id=4, arrivalTime=25, serviceTime=2, waitingTime=2  
  
--------------------------------  
  
Time: 28  
Waiting clients:   
Queue1: Closed  
Queue2: Client: id=4, arrivalTime=25, serviceTime=1, waitingTime=3  
  
--------------------------------  
  
Time: 29  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 30  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 31  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 32  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 33  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 34  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 35  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 36  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 37  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 38  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 39  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 40  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 41  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 42  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 43  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 44  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 45  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 46  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 47  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 48  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 49  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 50  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 51  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 52  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 53  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 54  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 55  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 56  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 57  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 58  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 59  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 60  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Time: 61  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
--------------------------------  
  
Average waiting time: 2.0

2.in:

numberOfClients=50  
numberOfQueues=5  
maxSimulationTime=60  
minArrivalTime=2  
maxArrivalTime=40  
minServiceTime=1  
maxServiceTime=7

out:

Clients : 50  
Queues : 5  
MAX Simulation : 60  
MIN Arrival Time : 2  
MAX Arrival Time : 40  
MIN Service Time : 1  
MAX Service Time : 7  
Clients:  
Client: id=7, arrivalTime=2, serviceTime=7, waitingTime=0  
  
Client: id=22, arrivalTime=4, serviceTime=7, waitingTime=0  
  
Client: id=3, arrivalTime=5, serviceTime=1, waitingTime=0  
  
Client: id=23, arrivalTime=7, serviceTime=3, waitingTime=0  
  
Client: id=2, arrivalTime=7, serviceTime=6, waitingTime=0  
  
Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
  
Client: id=33, arrivalTime=3, serviceTime=3, waitingTime=0  
  
Client: id=26, arrivalTime=4, serviceTime=1, waitingTime=0  
  
Client: id=48, arrivalTime=4, serviceTime=5, waitingTime=0  
  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=0  
  
Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=0  
  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
  
  
Time: 1  
Waiting clients: Client: id=7, arrivalTime=2, serviceTime=7, waitingTime=0  
Client: id=22, arrivalTime=4, serviceTime=7, waitingTime=0  
Client: id=3, arrivalTime=5, serviceTime=1, waitingTime=0  
Client: id=23, arrivalTime=7, serviceTime=3, waitingTime=0  
Client: id=2, arrivalTime=7, serviceTime=6, waitingTime=0  
Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=33, arrivalTime=3, serviceTime=3, waitingTime=0  
Client: id=26, arrivalTime=4, serviceTime=1, waitingTime=0  
Client: id=48, arrivalTime=4, serviceTime=5, waitingTime=0  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=0  
Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 2  
Waiting clients: Client: id=7, arrivalTime=2, serviceTime=7, waitingTime=0  
Client: id=22, arrivalTime=4, serviceTime=7, waitingTime=0  
Client: id=3, arrivalTime=5, serviceTime=1, waitingTime=0  
Client: id=23, arrivalTime=7, serviceTime=3, waitingTime=0  
Client: id=2, arrivalTime=7, serviceTime=6, waitingTime=0  
Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=33, arrivalTime=3, serviceTime=3, waitingTime=0  
Client: id=26, arrivalTime=4, serviceTime=1, waitingTime=0  
Client: id=48, arrivalTime=4, serviceTime=5, waitingTime=0  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=0  
Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 3  
Waiting clients: Client: id=22, arrivalTime=4, serviceTime=7, waitingTime=0  
Client: id=3, arrivalTime=5, serviceTime=1, waitingTime=0  
Client: id=23, arrivalTime=7, serviceTime=3, waitingTime=0  
Client: id=2, arrivalTime=7, serviceTime=6, waitingTime=0  
Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=33, arrivalTime=3, serviceTime=3, waitingTime=0  
Client: id=26, arrivalTime=4, serviceTime=1, waitingTime=0  
Client: id=48, arrivalTime=4, serviceTime=5, waitingTime=0  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=0  
Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=7, arrivalTime=2, serviceTime=6, waitingTime=1  
  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 4  
Waiting clients: Client: id=22, arrivalTime=4, serviceTime=7, waitingTime=0  
Client: id=3, arrivalTime=5, serviceTime=1, waitingTime=0  
Client: id=23, arrivalTime=7, serviceTime=3, waitingTime=0  
Client: id=2, arrivalTime=7, serviceTime=6, waitingTime=0  
Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=26, arrivalTime=4, serviceTime=1, waitingTime=0  
Client: id=48, arrivalTime=4, serviceTime=5, waitingTime=0  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=0  
Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=7, arrivalTime=2, serviceTime=5, waitingTime=2  
  
Queue2: Client: id=33, arrivalTime=3, serviceTime=2, waitingTime=1  
  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
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Time: 5  
Waiting clients: Client: id=3, arrivalTime=5, serviceTime=1, waitingTime=0  
Client: id=23, arrivalTime=7, serviceTime=3, waitingTime=0  
Client: id=2, arrivalTime=7, serviceTime=6, waitingTime=0  
Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=0  
Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=7, arrivalTime=2, serviceTime=4, waitingTime=3  
  
Queue2: Client: id=33, arrivalTime=3, serviceTime=1, waitingTime=2  
  
Queue3: Client: id=22, arrivalTime=4, serviceTime=6, waitingTime=1  
  
Queue4: Closed  
Queue5: Client: id=48, arrivalTime=4, serviceTime=4, waitingTime=1  
  
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Time: 6  
Waiting clients: Client: id=23, arrivalTime=7, serviceTime=3, waitingTime=0  
Client: id=2, arrivalTime=7, serviceTime=6, waitingTime=0  
Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=0  
Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=7, arrivalTime=2, serviceTime=3, waitingTime=4  
  
Queue2: Closed  
Queue3: Client: id=22, arrivalTime=4, serviceTime=5, waitingTime=2  
  
Queue4: Closed  
Queue5: Client: id=48, arrivalTime=4, serviceTime=3, waitingTime=2  
  
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Time: 7  
Waiting clients: Client: id=23, arrivalTime=7, serviceTime=3, waitingTime=0  
Client: id=2, arrivalTime=7, serviceTime=6, waitingTime=0  
Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=0  
Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=7, arrivalTime=2, serviceTime=2, waitingTime=5  
  
Queue2: Closed  
Queue3: Client: id=22, arrivalTime=4, serviceTime=4, waitingTime=3  
  
Queue4: Closed  
Queue5: Client: id=48, arrivalTime=4, serviceTime=2, waitingTime=3  
  
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Time: 8  
Waiting clients: Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=1  
Client: id=7, arrivalTime=2, serviceTime=1, waitingTime=6  
  
Queue2: Client: id=23, arrivalTime=7, serviceTime=2, waitingTime=1  
  
Queue3: Client: id=22, arrivalTime=4, serviceTime=3, waitingTime=4  
  
Queue4: Client: id=2, arrivalTime=7, serviceTime=5, waitingTime=1  
  
Queue5: Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=1  
Client: id=48, arrivalTime=4, serviceTime=1, waitingTime=4  
  
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Time: 9  
Waiting clients: Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
Client: id=28, arrivalTime=7, serviceTime=1, waitingTime=1  
  
Queue2: Client: id=23, arrivalTime=7, serviceTime=1, waitingTime=2  
  
Queue3: Client: id=22, arrivalTime=4, serviceTime=2, waitingTime=5  
  
Queue4: Client: id=2, arrivalTime=7, serviceTime=4, waitingTime=2  
  
Queue5: Client: id=38, arrivalTime=7, serviceTime=2, waitingTime=1  
  
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Time: 10  
Waiting clients: Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=21, arrivalTime=8, serviceTime=2, waitingTime=0  
  
Queue2: Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
Client: id=16, arrivalTime=9, serviceTime=1, waitingTime=0  
  
Queue3: Client: id=22, arrivalTime=4, serviceTime=1, waitingTime=6  
  
Queue4: Client: id=2, arrivalTime=7, serviceTime=3, waitingTime=3  
  
Queue5: Client: id=38, arrivalTime=7, serviceTime=1, waitingTime=2  
  
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Time: 11  
Waiting clients: Client: id=12, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=21, arrivalTime=8, serviceTime=1, waitingTime=1  
  
Queue2: Client: id=47, arrivalTime=9, serviceTime=7, waitingTime=0  
  
Queue3: Client: id=5, arrivalTime=10, serviceTime=1, waitingTime=0  
  
Queue4: Client: id=2, arrivalTime=7, serviceTime=2, waitingTime=4  
  
Queue5: Closed  
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Time: 12  
Waiting clients: Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Closed  
Queue2: Client: id=47, arrivalTime=9, serviceTime=6, waitingTime=1  
  
Queue3: Closed  
Queue4: Client: id=2, arrivalTime=7, serviceTime=1, waitingTime=5  
  
Queue5: Client: id=12, arrivalTime=11, serviceTime=6, waitingTime=1  
  
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Time: 13  
Waiting clients: Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=37, arrivalTime=13, serviceTime=7, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Closed  
Queue2: Client: id=47, arrivalTime=9, serviceTime=5, waitingTime=2  
  
Queue3: Closed  
Queue4: Closed  
Queue5: Client: id=12, arrivalTime=11, serviceTime=5, waitingTime=2  
  
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Time: 14  
Waiting clients: Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=49, arrivalTime=14, serviceTime=6, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=37, arrivalTime=13, serviceTime=6, waitingTime=1  
  
Queue2: Client: id=47, arrivalTime=9, serviceTime=4, waitingTime=3  
  
Queue3: Closed  
Queue4: Closed  
Queue5: Client: id=12, arrivalTime=11, serviceTime=4, waitingTime=3  
  
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Time: 15  
Waiting clients: Client: id=8, arrivalTime=15, serviceTime=1, waitingTime=0  
Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=37, arrivalTime=13, serviceTime=5, waitingTime=2  
  
Queue2: Client: id=47, arrivalTime=9, serviceTime=3, waitingTime=4  
  
Queue3: Client: id=49, arrivalTime=14, serviceTime=5, waitingTime=1  
  
Queue4: Closed  
Queue5: Client: id=12, arrivalTime=11, serviceTime=3, waitingTime=4  
  
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Time: 16  
Waiting clients: Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=37, arrivalTime=13, serviceTime=4, waitingTime=3  
  
Queue2: Client: id=47, arrivalTime=9, serviceTime=2, waitingTime=5  
  
Queue3: Client: id=49, arrivalTime=14, serviceTime=4, waitingTime=2  
  
Queue4: Client: id=24, arrivalTime=15, serviceTime=6, waitingTime=0  
  
Queue5: Client: id=12, arrivalTime=11, serviceTime=2, waitingTime=5  
  
--------------------------------  
  
Time: 17  
Waiting clients: Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=37, arrivalTime=13, serviceTime=3, waitingTime=4  
  
Queue2: Client: id=47, arrivalTime=9, serviceTime=1, waitingTime=6  
  
Queue3: Client: id=49, arrivalTime=14, serviceTime=3, waitingTime=3  
  
Queue4: Client: id=24, arrivalTime=15, serviceTime=5, waitingTime=1  
  
Queue5: Client: id=12, arrivalTime=11, serviceTime=1, waitingTime=6  
  
--------------------------------  
  
Time: 18  
Waiting clients: Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=34, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=37, arrivalTime=13, serviceTime=2, waitingTime=5  
  
Queue2: Client: id=17, arrivalTime=17, serviceTime=7, waitingTime=0  
  
Queue3: Client: id=49, arrivalTime=14, serviceTime=2, waitingTime=4  
  
Queue4: Client: id=24, arrivalTime=15, serviceTime=4, waitingTime=2  
  
Queue5: Closed  
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Time: 19  
Waiting clients: Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=37, arrivalTime=13, serviceTime=1, waitingTime=6  
  
Queue2: Client: id=17, arrivalTime=17, serviceTime=6, waitingTime=1  
  
Queue3: Client: id=49, arrivalTime=14, serviceTime=1, waitingTime=5  
  
Queue4: Client: id=24, arrivalTime=15, serviceTime=3, waitingTime=3  
  
Queue5: Client: id=34, arrivalTime=18, serviceTime=6, waitingTime=1  
  
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Time: 20  
Waiting clients: Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=0  
Client: id=25, arrivalTime=19, serviceTime=2, waitingTime=0  
  
Queue2: Client: id=17, arrivalTime=17, serviceTime=5, waitingTime=2  
  
Queue3: Client: id=19, arrivalTime=19, serviceTime=4, waitingTime=0  
  
Queue4: Client: id=24, arrivalTime=15, serviceTime=2, waitingTime=4  
  
Queue5: Client: id=34, arrivalTime=18, serviceTime=5, waitingTime=2  
  
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Time: 21  
Waiting clients: Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=1  
Client: id=25, arrivalTime=19, serviceTime=1, waitingTime=1  
  
Queue2: Client: id=17, arrivalTime=17, serviceTime=4, waitingTime=3  
  
Queue3: Client: id=19, arrivalTime=19, serviceTime=3, waitingTime=1  
  
Queue4: Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=1  
Client: id=24, arrivalTime=15, serviceTime=1, waitingTime=5  
  
Queue5: Client: id=34, arrivalTime=18, serviceTime=4, waitingTime=3  
  
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Time: 22  
Waiting clients: Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=0  
Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=0  
Client: id=41, arrivalTime=19, serviceTime=2, waitingTime=1  
  
Queue2: Client: id=17, arrivalTime=17, serviceTime=3, waitingTime=4  
  
Queue3: Client: id=19, arrivalTime=19, serviceTime=2, waitingTime=2  
  
Queue4: Client: id=11, arrivalTime=20, serviceTime=3, waitingTime=1  
  
Queue5: Client: id=34, arrivalTime=18, serviceTime=3, waitingTime=4  
  
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Time: 23  
Waiting clients: Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=1  
Client: id=41, arrivalTime=19, serviceTime=1, waitingTime=2  
  
Queue2: Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=1  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=1  
Client: id=17, arrivalTime=17, serviceTime=2, waitingTime=5  
  
Queue3: Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=1  
Client: id=19, arrivalTime=19, serviceTime=1, waitingTime=3  
  
Queue4: Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=1  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=1  
Client: id=11, arrivalTime=20, serviceTime=2, waitingTime=2  
  
Queue5: Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=1  
Client: id=34, arrivalTime=18, serviceTime=2, waitingTime=5  
  
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Time: 24  
Waiting clients: Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=0  
Client: id=9, arrivalTime=21, serviceTime=5, waitingTime=1  
  
Queue2: Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=2  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=2  
Client: id=17, arrivalTime=17, serviceTime=1, waitingTime=6  
  
Queue3: Client: id=6, arrivalTime=22, serviceTime=5, waitingTime=1  
  
Queue4: Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=2  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=2  
Client: id=11, arrivalTime=20, serviceTime=1, waitingTime=3  
  
Queue5: Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=2  
Client: id=34, arrivalTime=18, serviceTime=1, waitingTime=6  
  
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Time: 25  
Waiting clients: Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=1  
Client: id=9, arrivalTime=21, serviceTime=4, waitingTime=2  
  
Queue2: Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=2  
Client: id=39, arrivalTime=22, serviceTime=1, waitingTime=2  
  
Queue3: Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=1  
Client: id=6, arrivalTime=22, serviceTime=4, waitingTime=2  
  
Queue4: Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=2  
Client: id=45, arrivalTime=22, serviceTime=1, waitingTime=2  
  
Queue5: Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=32, arrivalTime=22, serviceTime=4, waitingTime=2  
  
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Time: 26  
Waiting clients: Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=0  
Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=2  
Client: id=9, arrivalTime=21, serviceTime=3, waitingTime=3  
  
Queue2: Client: id=27, arrivalTime=22, serviceTime=5, waitingTime=2  
  
Queue3: Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=2  
Client: id=6, arrivalTime=22, serviceTime=3, waitingTime=3  
  
Queue4: Client: id=40, arrivalTime=22, serviceTime=5, waitingTime=2  
  
Queue5: Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=1  
Client: id=32, arrivalTime=22, serviceTime=3, waitingTime=3  
  
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Time: 27  
Waiting clients: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=3  
Client: id=9, arrivalTime=21, serviceTime=2, waitingTime=4  
  
Queue2: Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=1  
Client: id=27, arrivalTime=22, serviceTime=4, waitingTime=3  
  
Queue3: Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=3  
Client: id=6, arrivalTime=22, serviceTime=2, waitingTime=4  
  
Queue4: Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=1  
Client: id=40, arrivalTime=22, serviceTime=4, waitingTime=3  
  
Queue5: Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=2  
Client: id=32, arrivalTime=22, serviceTime=2, waitingTime=4  
  
--------------------------------  
  
Time: 28  
Waiting clients: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=4  
Client: id=9, arrivalTime=21, serviceTime=1, waitingTime=5  
  
Queue2: Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=2  
Client: id=27, arrivalTime=22, serviceTime=3, waitingTime=4  
  
Queue3: Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=4  
Client: id=6, arrivalTime=22, serviceTime=1, waitingTime=5  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=1  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=2  
Client: id=40, arrivalTime=22, serviceTime=3, waitingTime=4  
  
Queue5: Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=3  
Client: id=32, arrivalTime=22, serviceTime=1, waitingTime=5  
  
--------------------------------  
  
Time: 29  
Waiting clients: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=0  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=46, arrivalTime=23, serviceTime=7, waitingTime=4  
  
Queue2: Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=3  
Client: id=27, arrivalTime=22, serviceTime=2, waitingTime=5  
  
Queue3: Client: id=18, arrivalTime=24, serviceTime=7, waitingTime=4  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=2  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=3  
Client: id=40, arrivalTime=22, serviceTime=2, waitingTime=5  
  
Queue5: Client: id=43, arrivalTime=24, serviceTime=6, waitingTime=3  
  
--------------------------------  
  
Time: 30  
Waiting clients: Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=0  
Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=46, arrivalTime=23, serviceTime=6, waitingTime=5  
  
Queue2: Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=4  
Client: id=27, arrivalTime=22, serviceTime=1, waitingTime=6  
  
Queue3: Client: id=18, arrivalTime=24, serviceTime=6, waitingTime=5  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=3  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=4  
Client: id=40, arrivalTime=22, serviceTime=1, waitingTime=6  
  
Queue5: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=1  
Client: id=43, arrivalTime=24, serviceTime=5, waitingTime=4  
  
--------------------------------  
  
Time: 31  
Waiting clients: Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=1  
Client: id=46, arrivalTime=23, serviceTime=5, waitingTime=6  
  
Queue2: Client: id=15, arrivalTime=26, serviceTime=7, waitingTime=4  
  
Queue3: Client: id=18, arrivalTime=24, serviceTime=5, waitingTime=6  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=3  
Client: id=30, arrivalTime=26, serviceTime=3, waitingTime=4  
  
Queue5: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=2  
Client: id=43, arrivalTime=24, serviceTime=4, waitingTime=5  
  
--------------------------------  
  
Time: 32  
Waiting clients: Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=1  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=2  
Client: id=46, arrivalTime=23, serviceTime=4, waitingTime=7  
  
Queue2: Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=1  
Client: id=15, arrivalTime=26, serviceTime=6, waitingTime=5  
  
Queue3: Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=1  
Client: id=18, arrivalTime=24, serviceTime=4, waitingTime=7  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=4  
Client: id=30, arrivalTime=26, serviceTime=2, waitingTime=5  
  
Queue5: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=3  
Client: id=43, arrivalTime=24, serviceTime=3, waitingTime=6  
  
--------------------------------  
  
Time: 33  
Waiting clients: Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=0  
Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=2  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=3  
Client: id=46, arrivalTime=23, serviceTime=3, waitingTime=8  
  
Queue2: Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=2  
Client: id=15, arrivalTime=26, serviceTime=5, waitingTime=6  
  
Queue3: Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=2  
Client: id=18, arrivalTime=24, serviceTime=3, waitingTime=8  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=5  
Client: id=30, arrivalTime=26, serviceTime=1, waitingTime=6  
  
Queue5: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=4  
Client: id=43, arrivalTime=24, serviceTime=2, waitingTime=7  
  
--------------------------------  
  
Time: 34  
Waiting clients: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=3  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=4  
Client: id=46, arrivalTime=23, serviceTime=2, waitingTime=9  
  
Queue2: Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=1  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=3  
Client: id=15, arrivalTime=26, serviceTime=4, waitingTime=7  
  
Queue3: Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=3  
Client: id=18, arrivalTime=24, serviceTime=2, waitingTime=9  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=6, waitingTime=5  
  
Queue5: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=5  
Client: id=43, arrivalTime=24, serviceTime=1, waitingTime=8  
  
--------------------------------  
  
Time: 35  
Waiting clients: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=4  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=5  
Client: id=46, arrivalTime=23, serviceTime=1, waitingTime=10  
  
Queue2: Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=2  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=4  
Client: id=15, arrivalTime=26, serviceTime=3, waitingTime=8  
  
Queue3: Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=4  
Client: id=18, arrivalTime=24, serviceTime=1, waitingTime=10  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=5, waitingTime=6  
  
Queue5: Client: id=20, arrivalTime=29, serviceTime=7, waitingTime=5  
  
--------------------------------  
  
Time: 36  
Waiting clients: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=4  
Client: id=13, arrivalTime=30, serviceTime=2, waitingTime=5  
  
Queue2: Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=3  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=5  
Client: id=15, arrivalTime=26, serviceTime=2, waitingTime=9  
  
Queue3: Client: id=1, arrivalTime=31, serviceTime=7, waitingTime=4  
  
Queue4: Client: id=44, arrivalTime=27, serviceTime=4, waitingTime=7  
  
Queue5: Client: id=20, arrivalTime=29, serviceTime=6, waitingTime=6  
  
--------------------------------  
  
Time: 37  
Waiting clients: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=0  
Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=5  
Client: id=13, arrivalTime=30, serviceTime=1, waitingTime=6  
  
Queue2: Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=4  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=6  
Client: id=15, arrivalTime=26, serviceTime=1, waitingTime=10  
  
Queue3: Client: id=1, arrivalTime=31, serviceTime=6, waitingTime=5  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=1  
Client: id=44, arrivalTime=27, serviceTime=3, waitingTime=8  
  
Queue5: Client: id=20, arrivalTime=29, serviceTime=5, waitingTime=7  
  
--------------------------------  
  
Time: 38  
Waiting clients: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=4, arrivalTime=31, serviceTime=7, waitingTime=5  
  
Queue2: Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=4  
Client: id=31, arrivalTime=31, serviceTime=1, waitingTime=6  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=1  
Client: id=1, arrivalTime=31, serviceTime=5, waitingTime=6  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=2  
Client: id=44, arrivalTime=27, serviceTime=2, waitingTime=9  
  
Queue5: Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=1  
Client: id=20, arrivalTime=29, serviceTime=4, waitingTime=8  
  
--------------------------------  
  
Time: 39  
Waiting clients: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=0  
Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=4, arrivalTime=31, serviceTime=6, waitingTime=6  
  
Queue2: Client: id=10, arrivalTime=33, serviceTime=7, waitingTime=4  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=2  
Client: id=1, arrivalTime=31, serviceTime=4, waitingTime=7  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=3  
Client: id=44, arrivalTime=27, serviceTime=1, waitingTime=10  
  
Queue5: Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=1  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=2  
Client: id=20, arrivalTime=29, serviceTime=3, waitingTime=9  
  
--------------------------------  
  
Time: 40  
Waiting clients: Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=0  
  
Queue1: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=1  
Client: id=4, arrivalTime=31, serviceTime=5, waitingTime=7  
  
Queue2: Client: id=10, arrivalTime=33, serviceTime=6, waitingTime=5  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=3  
Client: id=1, arrivalTime=31, serviceTime=3, waitingTime=8  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=6, waitingTime=3  
  
Queue5: Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=2  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=3  
Client: id=20, arrivalTime=29, serviceTime=2, waitingTime=10  
  
--------------------------------  
  
Time: 41  
Waiting clients:   
Queue1: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=2  
Client: id=4, arrivalTime=31, serviceTime=4, waitingTime=8  
  
Queue2: Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=1  
Client: id=10, arrivalTime=33, serviceTime=5, waitingTime=6  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=4  
Client: id=1, arrivalTime=31, serviceTime=2, waitingTime=9  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=5, waitingTime=4  
  
Queue5: Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=3  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=4  
Client: id=20, arrivalTime=29, serviceTime=1, waitingTime=11  
  
--------------------------------  
  
Time: 42  
Waiting clients:   
Queue1: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=3  
Client: id=4, arrivalTime=31, serviceTime=3, waitingTime=9  
  
Queue2: Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=2  
Client: id=10, arrivalTime=33, serviceTime=4, waitingTime=7  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=5  
Client: id=1, arrivalTime=31, serviceTime=1, waitingTime=10  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=4, waitingTime=5  
  
Queue5: Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=3  
Client: id=29, arrivalTime=37, serviceTime=2, waitingTime=4  
  
--------------------------------  
  
Time: 43  
Waiting clients:   
Queue1: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=4  
Client: id=4, arrivalTime=31, serviceTime=2, waitingTime=10  
  
Queue2: Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=3  
Client: id=10, arrivalTime=33, serviceTime=3, waitingTime=8  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=4, waitingTime=5  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=3, waitingTime=6  
  
Queue5: Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=4  
Client: id=29, arrivalTime=37, serviceTime=1, waitingTime=5  
  
--------------------------------  
  
Time: 44  
Waiting clients:   
Queue1: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=5  
Client: id=4, arrivalTime=31, serviceTime=1, waitingTime=11  
  
Queue2: Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=4  
Client: id=10, arrivalTime=33, serviceTime=2, waitingTime=9  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=3, waitingTime=6  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=2, waitingTime=7  
  
Queue5: Client: id=50, arrivalTime=38, serviceTime=2, waitingTime=4  
  
--------------------------------  
  
Time: 45  
Waiting clients:   
Queue1: Client: id=14, arrivalTime=39, serviceTime=3, waitingTime=5  
  
Queue2: Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=5  
Client: id=10, arrivalTime=33, serviceTime=1, waitingTime=10  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=2, waitingTime=7  
  
Queue4: Client: id=36, arrivalTime=36, serviceTime=1, waitingTime=8  
  
Queue5: Client: id=50, arrivalTime=38, serviceTime=1, waitingTime=5  
  
--------------------------------  
  
Time: 46  
Waiting clients:   
Queue1: Client: id=14, arrivalTime=39, serviceTime=2, waitingTime=6  
  
Queue2: Client: id=42, arrivalTime=40, serviceTime=5, waitingTime=5  
  
Queue3: Client: id=35, arrivalTime=37, serviceTime=1, waitingTime=8  
  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 47  
Waiting clients:   
Queue1: Client: id=14, arrivalTime=39, serviceTime=1, waitingTime=7  
  
Queue2: Client: id=42, arrivalTime=40, serviceTime=4, waitingTime=6  
  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 48  
Waiting clients:   
Queue1: Closed  
Queue2: Client: id=42, arrivalTime=40, serviceTime=3, waitingTime=7  
  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 49  
Waiting clients:   
Queue1: Closed  
Queue2: Client: id=42, arrivalTime=40, serviceTime=2, waitingTime=8  
  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 50  
Waiting clients:   
Queue1: Closed  
Queue2: Client: id=42, arrivalTime=40, serviceTime=1, waitingTime=9  
  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 51  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 52  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 53  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 54  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 55  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 56  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 57  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 58  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 59  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 60  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Time: 61  
Waiting clients:   
Queue1: Closed  
Queue2: Closed  
Queue3: Closed  
Queue4: Closed  
Queue5: Closed  
--------------------------------  
  
Average waiting time: 5.18

3.in:

numberOfClients=1000  
numberOfQueues=20  
maxSimulationTime=200  
minArrivalTime=10  
maxArrivalTime=100  
minServiceTime=3  
maxServiceTime=9

out:

Clients : 1000  
Queues : 20  
MAX Simulation : 200  
MIN Arrival Time : 10  
MAX Arrival Time : 100  
MIN Service Time : 3  
MAX Service Time : 9  
  
Time: 1  
Waiting clients: Client: id=3, arrivalTime=10, serviceTime=8, waitingTime=0  
Client: id=138, arrivalTime=11, serviceTime=3, waitingTime=0  
Client: id=11, arrivalTime=11, serviceTime=5, waitingTime=0  
Client: id=131, arrivalTime=12, serviceTime=8, waitingTime=0  
Client: id=149, arrivalTime=12, serviceTime=9, waitingTime=0  
Client: id=18, arrivalTime=15, serviceTime=9, waitingTime=0  
Client: id=26, arrivalTime=15, serviceTime=9, waitingTime=0  
Client: id=150, arrivalTime=18, serviceTime=3, waitingTime=0  
Client: id=5, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=10, arrivalTime=18, serviceTime=7, waitingTime=0  
Client: id=143, arrivalTime=22, serviceTime=6, waitingTime=0  
Client: id=160, arrivalTime=24, serviceTime=6, waitingTime=0  
Client: id=29, arrivalTime=24, serviceTime=7, waitingTime=0  
Client: id=129, arrivalTime=25, serviceTime=3, waitingTime=0  
Client: id=135, arrivalTime=25, serviceTime=7, waitingTime=0  
Client: id=141, arrivalTime=27, serviceTime=6, waitingTime=0  
Client: id=152, arrivalTime=28, serviceTime=4, waitingTime=0  
Client: id=151, arrivalTime=28, serviceTime=5, waitingTime=0  
Client: id=158, arrivalTime=32, serviceTime=4, waitingTime=0  
Client: id=22, arrivalTime=34, serviceTime=5, waitingTime=0  
Client: id=14, arrivalTime=35, serviceTime=8, waitingTime=0  
Client: id=159, arrivalTime=36, serviceTime=4, waitingTime=0  
Client: id=8, arrivalTime=37, serviceTime=4, waitingTime=0  
Client: id=140, arrivalTime=38, serviceTime=6, waitingTime=0  
Client: id=19, arrivalTime=38, serviceTime=8, waitingTime=0  
Client: id=148, arrivalTime=39, serviceTime=4, waitingTime=0  
Client: id=142, arrivalTime=41, serviceTime=4, waitingTime=0  
Client: id=30, arrivalTime=43, serviceTime=9, waitingTime=0  
Client: id=133, arrivalTime=44, serviceTime=4, waitingTime=0  
Client: id=145, arrivalTime=47, serviceTime=7, waitingTime=0  
Client: id=4, arrivalTime=50, serviceTime=6, waitingTime=0  
Client: id=27, arrivalTime=51, serviceTime=7, waitingTime=0  
Client: id=1, arrivalTime=52, serviceTime=4, waitingTime=0  
Client: id=32, arrivalTime=53, serviceTime=5, waitingTime=0  
Client: id=154, arrivalTime=53, serviceTime=7, waitingTime=0  
Client: id=31, arrivalTime=55, serviceTime=9, waitingTime=0  
Client: id=17, arrivalTime=57, serviceTime=7, waitingTime=0  
Client: id=139, arrivalTime=58, serviceTime=4, waitingTime=0  
Client: id=130, arrivalTime=58, serviceTime=5, waitingTime=0  
Client: id=156, arrivalTime=59, serviceTime=4, waitingTime=0  
Client: id=23, arrivalTime=60, serviceTime=4, waitingTime=0  
Client: id=134, arrivalTime=60, serviceTime=5, waitingTime=0  
Client: id=155, arrivalTime=61, serviceTime=6, waitingTime=0  
Client: id=153, arrivalTime=66, serviceTime=9, waitingTime=0  
Client: id=146, arrivalTime=68, serviceTime=6, waitingTime=0  
Client: id=147, arrivalTime=68, serviceTime=7, waitingTime=0  
Client: id=2, arrivalTime=69, serviceTime=6, waitingTime=0  
Client: id=21, arrivalTime=69, serviceTime=7, waitingTime=0  
Client: id=9, arrivalTime=71, serviceTime=9, waitingTime=0  
Client: id=157, arrivalTime=74, serviceTime=6, waitingTime=0  
Client: id=12, arrivalTime=75, serviceTime=5, waitingTime=0  
Client: id=16, arrivalTime=78, serviceTime=6, waitingTime=0  
Client: id=132, arrivalTime=79, serviceTime=4, waitingTime=0  
Client: id=7, arrivalTime=79, serviceTime=5, waitingTime=0  
Client: id=15, arrivalTime=79, serviceTime=8, waitingTime=0  
Client: id=136, arrivalTime=80, serviceTime=3, waitingTime=0  
Client: id=25, arrivalTime=84, serviceTime=3, waitingTime=0  
Client: id=24, arrivalTime=88, serviceTime=7, waitingTime=0  
Client: id=137, arrivalTime=91, serviceTime=6, waitingTime=0  
Client: id=20, arrivalTime=91, serviceTime=7, waitingTime=0  
Client: id=28, arrivalTime=91, serviceTime=8, waitingTime=0  
Client: id=144, arrivalTime=95, serviceTime=8, waitingTime=0  
Client: id=187, arrivalTime=11, serviceTime=7, waitingTime=0  
Client: id=164, arrivalTime=11, serviceTime=8, waitingTime=0  
Client: id=169, arrivalTime=12, serviceTime=9, waitingTime=0  
Client: id=172, arrivalTime=13, serviceTime=8, waitingTime=0  
Client: id=168, arrivalTime=16, serviceTime=5, waitingTime=0  
Client: id=174, arrivalTime=18, serviceTime=4, waitingTime=0  
Client: id=171, arrivalTime=24, serviceTime=5, waitingTime=0  
Client: id=185, arrivalTime=24, serviceTime=5, waitingTime=0  
Client: id=167, arrivalTime=25, serviceTime=9, waitingTime=0  
Client: id=13, arrivalTime=96, serviceTime=7, waitingTime=0  
Client: id=177, arrivalTime=28, serviceTime=8, waitingTime=0  
Client: id=178, arrivalTime=32, serviceTime=7, waitingTime=0  
Client: id=161, arrivalTime=38, serviceTime=9, waitingTime=0  
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Queue17: Closed  
Queue18: Closed  
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**6.Concluzii**

Dupa realizarea acestui proiect mi-am dat seama ca inceputul conteaza cel mai mult, cum reusesti sa planifici prima data “schita” proiectului. Dupa ce am realizat un mic “template” dupa care sa ma ghidez, mi-a fost mult mai usor sa am implementari ulterioare sau sa modific anumite chestii, deoarece 10

scheletul proiectului a fost realizat bine de la bun inceput. Cazurile marunte de implementare consider ca au fost cele mai costitistoare din punct de vedere al timpului.

Implementari ulterioare ar putea fi prin introducerea de noi functionalitati legate de eficienta sau statistica.

**7.Bibliografie**

<https://www.youtube.com/>

Cursuri/laboratoare