

سپهر مقیسه

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گزارش ۷

## الگوریتم بانکداران:

در این برنامه بردار `available` در ابتدای کار توسط آرگومان‌های برنامه گرفته می‌شود و ماتریس `maximum` از فایل `max.txt` که در دایرکتوری برنامه موجود است خوانده می‌شود. نمونه خروجی برنامه با دستورات زیر را در شکل (۱) می‌بینیم:

```
make banker
```

```
./banker.out 5 6 6 5 5 6 6
```

```
sepehr@ubuntu:~/Desktop/lab7$ make banker
sepehr@ubuntu:~/Desktop/lab7$ ./banker.out 5 6 6 5 5 6 6
Available:
5 6 6 5 5 6 6
Maximum:
4 2 2 3 1 1 3
5 2 1 1 4 5 3
2 3 4 1 3 4 2
3 1 2 1 3 4 1
1 5 0 0 0 0 0
0 0 0 0 0 0 0
Allocation:
0 0 0 0 0 0 0
0 0 0 0 0 0 0
0 0 0 0 0 0 0
0 0 0 0 0 0 0
0 0 0 0 0 0 0
0 0 0 0 0 0 0
Need:
4 2 2 3 1 1 3
5 2 1 1 4 5 3
2 3 4 1 3 4 2
3 1 2 1 3 4 1
1 5 0 0 0 0 0
0 0 0 0 0 0 0
=====
Customer 1 Releases [0 0 0 0 0 0 0]
Customer 1 Releases [0 0 0 0 0 0 0]
Customer 1 Requests [3 1 2 1 1 1 3] -> accepted
Customer 1 Requests [1 0 0 0 0 0 0] -> accepted
```

```
Customer 2 Releases [0 0 0 0 0 0 0]
Customer 5 Releases [0 0 0 0 0 0 0]
Customer 4 Requests [1 0 0 0 0 3 0] -> accepted
Customer 4 Requests [1 0 1 1 0 0 1] -> not accepted
Customer 4 Releases [0 0 0 0 0 1 0]
Customer 4 Releases [0 0 0 0 0 2 0]
Customer 4 Requests [2 1 1 0 3 4 1] -> not accepted
Customer 4 Releases [1 0 0 0 0 0 0]
Customer 4 Requests [0 0 2 0 0 1 1] -> accepted
Customer 4 Releases [0 0 1 0 0 0 1]
Customer 4 Releases [0 0 0 0 0 0 0]
Customer 5 Releases [0 0 0 0 0 0 0]
Customer 5 Releases [0 0 0 0 0 0 0]
Customer 5 Requests [1 2 0 0 0 0 0] -> accepted
Customer 7 Releases [0 0 0 0 0 0 4]
Customer 5 Requests [0 3 0 0 0 0 0] -> not accepted
Customer 7 Releases [0 0 0 0 0 0 0]
Customer 5 Requests [0 0 0 0 0 0 0] -> accepted
Customer 6 Requests [0 0 0 0 0 0 0] -> accepted
Customer 6 Releases [0 0 0 0 0 0 0]
Customer 6 Requests [0 0 0 0 0 0 0] -> accepted
Customer 6 Releases [0 0 0 0 0 0 0]
Customer 6 Releases [0 0 0 0 0 0 0]
Customer 6 Releases [0 0 0 0 0 0 0]
Customer 5 Releases [1 0 0 0 0 0 0]
Customer 5 Releases [0 2 0 0 0 0 0]
Customer 5 Requests [1 1 0 0 0 0 0] -> accepted
Customer 5 Releases [0 1 0 0 0 0 0]
sepehr@ubuntu:~/Desktop/lab7$
```