دانشگاه صنعتی امیرکبیر
(پلی تکنیک تهران)

آزمایشگاه سیستم‌های عامل

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پاییز ۱۳۹۹

آزمایش هفتم

- **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
```

```
Customer 2 Requests [0 1 4 2 0] -> accepted
Customer 2 Requests [1 0 1 0 0] -> accepted
Customer 2 Releases [1 1 0 2 0]
Customer 1 Releases [0 0 0 0 0]
Customer 3 Requests [1 4 1 2 1] -> not accepted
Customer 5 Releases [0 0 0 0 0]
Customer 5 Requests [0 2 0 0 1] -> accepted
Customer 5 Requests [0 0 0 0 0] -> accepted
Customer 1 Requests [3 0 1 3 1] -> accepted
Customer 3 Releases [0 0 0 0 0]
Customer 3 Releases [0 0 0 0 0]
Customer 2 Releases [0 0 2 0 0]
Customer 4 Releases [0 0 0 0 0]
Customer 4 Releases [0 0 0 0 0]
Customer 4 Requests [0 0 1 2 2] -> not accepted
Customer 4 Requests [0 2 1 1 0] -> not accepted
Customer 4 Requests [1 1 1 3 4] -> not accepted
Customer 4 Requests [0 3 0 3 1] -> not accepted
Customer 4 Releases [0 0 0 0 0]
Customer 4 Requests [2 0 1 1 3] -> not accepted
Customer 2 Requests [1 3 1 1 0] -> accepted
Customer 2 Releases [1 3 4 1 0]
Customer 1 Requests [0 1 0 0 0] -> accepted
Customer 3 Releases [0 0 0 0 0]
Customer 4 Requests [1 2 0 2 1] -> not accepted
Customer 4 Requests [3 3 0 3 1] -> not accepted
Customer 2 Requests [0 2 2 0 1] -> accepted
Customer 2 Releases [0 0 1 0 1]
Customer 2 Requests [0 1 0 0 0] -> not accepted
Customer 2 Releases [0 1 1 0 0]
Customer 1 Requests [1 1 0 0 0] -> accepted
Customer 3 Releases [0 0 0 0 0]
Customer 3 Releases [0 0 0 0 0]
Customer 3 Releases [0 0 0 0 0]
Customer 3 Releases [0 0 0 0 0]
Customer 1 Requests [0 0 0 0 0] -> accepted
Customer 1 Requests [0 0 1 0 0] -> accepted
Customer 1 Releases [0 2 0 3 1]
Customer 1 Requests [0 0 0 0 0] -> accepted
Customer 3 Requests [1 2 4 1 0] -> not accepted
Customer 3 Requests [1 4 3 1 2] -> not accepted
Customer 1 Releases [0 0 1 0 0]
Customer 5 Releases [0 0 0 0 0]
Customer 1 Releases [3 0 0 0 0]
Customer 5 Requests [2 1 0 0 0] -> accepted
Customer 5 Requests [0 0 0 2 0] -> accepted
Customer 5 Releases [2 2 0 1 1]
Customer 5 Requests [1 0 0 1 0] -> accepted
Customer 5 Requests [1 2 1 0 1] -> accepted
Customer 5 Releases [0 0 1 0 0]
radin  ~/os-lab/Lab7  master
```

شکل (۱) – نمونه خروجی الگوریتم بانکداران