

TP3 - Sistemas Digitais 23.1

PedroGomes 119042303,

FilipePrates 116013311

O Objetivo desse trabalho é projetar e implementar o algoritmo centralizado de exclusão mútua distribuída.

O Servidor

A implementação do servidor foi feita na linguagem de programação Go, com ajuda da biblioteca de RPC (remote procedure call) chamada gRPC. Debaixo dos panos essa biblioteca nos ajuda à criar múltiplas threads que escutam os clientes em diferentes sockets, e reage às suas mensagens.

Tal biblioteca permite a criação de um “contrato de comunicação”: o PROTOBUFF, escrito em linguagem neutra, gera automaticamente o código para tratar as mensagens entre diferentes linguagens através de stubs e do marshalling.

O servidor possui um semáforo que controla o acesso dos clientes ao arquivo de escrita. Uma mensagem de ‘GRANT’ significa que o semáforo foi corretamente adquirido e ele só é solto por uma mensagem de ‘RELEASE’ vinda daquele processo que possui o ‘GRANT’.

Outros processos que tentarem escrever no arquivo estarão aguardando até que o acquire desse semáforo retorne, indicando que é a vez dele de escrever. A implementação desse semáforo possui um outro semáforo para controle da fila de requisições.

Não implementamos temporizadores ou maneiras robustas de tratar falhas, se o processo que possui o ‘GRANT’ falhar e não retornar o ‘RELEASE’, o servidor se vê impossibilitado de continuar à tratar os clientes (o que acontece na prática ao parar o script dos Clientes no meio, ao reiniciar, o servidor está esperando ainda um Release de um processo que não existe mais, é necessário parar e recomeçar também o processo do servidor).

Os Clientes

Para ver a biblioteca de RPC do Go em ação, foi decidido escrever o código dos clientes em python, e se utilizar dos stubs e do marshalling para traduzir de uma linguagem para outra na prática.

O código recebe como argumento os valores de **n** (número de processos), **r** (número de vezes que cada processo precisa acessar a zona crítica), e **k** (número de segundos cada processo espera antes de começar um novo pedido). Para **n** vezes, começa um processo que roda a função *clientRequests* que efetivamente envia as requisições de acesso e age quando recebe as notificações de GRANT.

```
def main():
    if len(sys.argv) != 4:
        print(
            "Usage: python3 main.py <noOfProcesses> <noOfRequestsPerProcess> <secondsToSleep>"
        )
        sys.exit(1)
    n_processes, r_requests, k_seconds = [int(x) for x in sys.argv[1:]]
    processes = []
    for i in range(n_processes):
        p = multiprocessing.Process(
            target=clientRequests, args=(r_requests, k_seconds, i, write)
        )
        processes.append(p)
    for p in processes:
        p.start()
    for p in processes:
        p.join()
    print("done")
//---

def clientRequests(requests, seconds, id, writefunc):
    with grpc.insecure_channel("localhost:50051") as channel:
        stub = tp3_pb2_grpc.Tp3RPCStub(channel)
        for _ in range(requests):
            message = tp3_pb2.ClientMessage(ProcessId=id)
            granted = stub.Request(message)
            if granted.granted:
                print(f"Pid {id} granted message received")
                writefunc(f"Process Id: {id} - {datetime.datetime.now()}\n")
                time.sleep(seconds)
                stub.Release(message)
```

Resultados

Primeira rodada de testes.

▼ Teste 0 de funcionamento.

$n = 2, r = 10, e k = 2$

```
PS C:\Users\Filipe P\Documents\_Pessoal\_UFRJ\DistributedSystems\TP3> go run server/main/main.go
Initializing server
Please choose the corresponding command:
1: Print the current queue
2: Print how many times each process has been served
3: Forcefully stop the server: Cancels all RPCs and open connections and stops the server
What would you like to do? |
```

```
PS C:\Users\Filipe P\Documents\_Pessoal\_UFRJ\DistributedSystems\TP3> python client/main.py 2 10 2
Pid 0 granted message received
Pid 1 granted message received
Pid 0 granted message received
Pid 1 granted message received
Pid 0 granted message received
Pid 1 granted message received
Pid 0 granted message received
Pid 1 granted message received
Pid 0 granted message received
Pid 1 granted message received
Pid 0 granted message received
Pid 1 granted message received
Pid 0 granted message received
```

▼ results.txt (20 linhas 2x10) - 38,250 segundos

```
Process Id: 0 - 2023-07-16 19:08:14.385568
Process Id: 1 - 2023-07-16 19:08:16.402866
Process Id: 0 - 2023-07-16 19:08:18.413894
Process Id: 1 - 2023-07-16 19:08:20.431095
Process Id: 0 - 2023-07-16 19:08:22.444128
Process Id: 1 - 2023-07-16 19:08:24.464769
Process Id: 0 - 2023-07-16 19:08:26.477323
Process Id: 1 - 2023-07-16 19:08:28.484966
Process Id: 0 - 2023-07-16 19:08:30.499585
Process Id: 1 - 2023-07-16 19:08:32.515594
Process Id: 0 - 2023-07-16 19:08:34.533208
Process Id: 1 - 2023-07-16 19:08:36.548476
Process Id: 0 - 2023-07-16 19:08:38.556950
Process Id: 1 - 2023-07-16 19:08:40.564181
Process Id: 0 - 2023-07-16 19:08:42.571313
Process Id: 1 - 2023-07-16 19:08:44.588313
Process Id: 0 - 2023-07-16 19:08:46.604815
Process Id: 1 - 2023-07-16 19:08:48.611219
Process Id: 0 - 2023-07-16 19:08:50.623412
Process Id: 1 - 2023-07-16 19:08:52.635794
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-16 19:08:08.381834
GRANTED 0 2023-07-16 19:08:08.384220
REQUEST 1 2023-07-16 19:08:08.396634
RELEASED 0 2023-07-16 19:08:08.401868
GRANTED 1 2023-07-16 19:08:08.401868
REQUEST 0 2023-07-16 19:08:08.402866
```

RELEASED 1 2023-07-16 19:08:08.413311
GRANTED 0 2023-07-16 19:08:08.413311
REQUEST 1 2023-07-16 19:08:08.414475
GRANTED 1 2023-07-16 19:08:08.430001
RELEASED 0 2023-07-16 19:08:08.430001
REQUEST 0 2023-07-16 19:08:08.431637
RELEASED 1 2023-07-16 19:08:08.442910
GRANTED 0 2023-07-16 19:08:08.442910
REQUEST 1 2023-07-16 19:08:08.444676
RELEASED 0 2023-07-16 19:08:08.459947
GRANTED 1 2023-07-16 19:08:08.460505
REQUEST 0 2023-07-16 19:08:08.464769
RELEASED 1 2023-07-16 19:08:08.474907
GRANTED 0 2023-07-16 19:08:08.475548
REQUEST 1 2023-07-16 19:08:08.477323
GRANTED 1 2023-07-16 19:08:08.481631
RELEASED 0 2023-07-16 19:08:08.481631
REQUEST 0 2023-07-16 19:08:08.485544
GRANTED 0 2023-07-16 19:08:08.497685
RELEASED 1 2023-07-16 19:08:08.497071
REQUEST 1 2023-07-16 19:08:08.499585
GRANTED 1 2023-07-16 19:08:08.514464
RELEASED 0 2023-07-16 19:08:08.513929
REQUEST 0 2023-07-16 19:08:08.516389
GRANTED 0 2023-07-16 19:08:08.531756
RELEASED 1 2023-07-16 19:08:08.531756
REQUEST 1 2023-07-16 19:08:08.533208
RELEASED 0 2023-07-16 19:08:08.546908
GRANTED 1 2023-07-16 19:08:08.547326
REQUEST 0 2023-07-16 19:08:08.548527
RELEASED 1 2023-07-16 19:08:08.553658
GRANTED 0 2023-07-16 19:08:08.554464
REQUEST 1 2023-07-16 19:08:08.556950
RELEASED 0 2023-07-16 19:08:08.563677
GRANTED 1 2023-07-16 19:08:08.563677
REQUEST 0 2023-07-16 19:08:08.564181
GRANTED 0 2023-07-16 19:08:08.570241
RELEASED 1 2023-07-16 19:08:08.569755
REQUEST 1 2023-07-16 19:08:08.571313
GRANTED 1 2023-07-16 19:08:08.587254
RELEASED 0 2023-07-16 19:08:08.586807
REQUEST 0 2023-07-16 19:08:08.588313
RELEASED 1 2023-07-16 19:08:08.601735
GRANTED 0 2023-07-16 19:08:08.601735
REQUEST 1 2023-07-16 19:08:08.604815
GRANTED 1 2023-07-16 19:08:08.609860
RELEASED 0 2023-07-16 19:08:08.609860
REQUEST 0 2023-07-16 19:08:08.611319
GRANTED 0 2023-07-16 19:08:08.622853
RELEASED 1 2023-07-16 19:08:08.622328
REQUEST 1 2023-07-16 19:08:08.623412
RELEASED 0 2023-07-16 19:08:08.634212
GRANTED 1 2023-07-16 19:08:08.634681
RELEASED 1 2023-07-16 19:08:08.642940

Minimamente funcional.

▼ Teste 1 de escalabilidade do sistema.

n = 2, r = 10, e k = 2	38,250 segundos
n = 4, r = 10, e k = 2	78,484 segundos
n = 8, r = 10, e k = 2	158,932 segundos
n = 16, r = 10, e k = 2	320,285 segundos
n = 32, r = 10, e k = 2	640,785 segundos

▼ Test 2 de escalabilidade do sistema.

n = 2, r = 5, e k = 1	9,121 segundos
n = 4, r = 5, e k = 1	19,237 segundos
n = 8, r = 5, e k = 1	39,559 segundos
n = 16, r = 5, e k = 1	79,964 segundos
n = 32, r = 5, e k = 1	161,150 segundos
n = 64, r = 5, e k = 1	322,934 segundos

exemplo de log (não passou na validação)

▼ results.txt (10 linhas 2x5) - **9,121** segundos

```
Process Id: 0 - 2023-07-16 20:05:42.273171
Process Id: 1 - 2023-07-16 20:05:43.279929
Process Id: 0 - 2023-07-16 20:05:44.298874
Process Id: 1 - 2023-07-16 20:05:45.309819
Process Id: 0 - 2023-07-16 20:05:46.324346
Process Id: 1 - 2023-07-16 20:05:47.338246
Process Id: 0 - 2023-07-16 20:05:48.350782
Process Id: 1 - 2023-07-16 20:05:49.365274
Process Id: 0 - 2023-07-16 20:05:50.375657
Process Id: 1 - 2023-07-16 20:05:51.394341
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-16 20:05:05.270908
GRANTED 0 2023-07-16 20:05:05.271947
REQUEST 1 2023-07-16 20:05:05.301246
RELEASED 0 2023-07-16 20:05:05.279353
```

```

GRANTED 1 2023-07-16 20:05:05.279353
REQUEST 0 2023-07-16 20:05:05.279929
RELEASED 1 2023-07-16 20:05:05.297664
GRANTED 0 2023-07-16 20:05:05.297664
REQUEST 1 2023-07-16 20:05:05.298874
GRANTED 1 2023-07-16 20:05:05.309238
RELEASED 0 2023-07-16 20:05:05.309238
REQUEST 0 2023-07-16 20:05:05.310323
RELEASED 1 2023-07-16 20:05:05.323318
GRANTED 0 2023-07-16 20:05:05.323318
REQUEST 1 2023-07-16 20:05:05.324346
RELEASED 0 2023-07-16 20:05:05.337227
GRANTED 1 2023-07-16 20:05:05.337227
REQUEST 0 2023-07-16 20:05:05.338246
GRANTED 0 2023-07-16 20:05:05.350275
RELEASED 1 2023-07-16 20:05:05.350275
REQUEST 1 2023-07-16 20:05:05.351425
RELEASED 0 2023-07-16 20:05:05.363207
GRANTED 1 2023-07-16 20:05:05.363207
REQUEST 0 2023-07-16 20:05:05.365274
GRANTED 0 2023-07-16 20:05:05.375152
RELEASED 1 2023-07-16 20:05:05.375152
REQUEST 1 2023-07-16 20:05:05.375657
RELEASED 0 2023-07-16 20:05:05.391792
GRANTED 1 2023-07-16 20:05:05.391792
RELEASED 1 2023-07-16 20:05:05.400547

```

▼ Test 3 de escalabilidade do sistema.

n = 2, r = 3, e k = 0	0,053 segundos
n = 4, r = 3, e k = 0	0,087 segundos
n = 8, r = 3, e k = 0	0,181 segundos
n = 16, r = 3, e k = 0	0,618 segundos
n = 32, r = 3, e k = 0	1,726 segundos
n = 64, r = 3, e k = 0	3,335 segundos
n = 128, r = 3, e k = 0	11,911 segundos

Validação dos arquivos

Para validar que o acesso à zona crítica foi sequencial e organizado pelo servidor, olhamos os logs gerados no arquivo serverlog.txt e checamos utilizando o script disponibilizado pelo professor com ligeiras alterações.

```

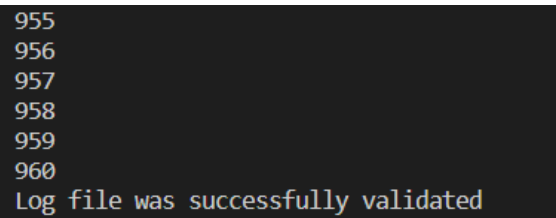
def validate():
    f = open("serverlog.txt", "r")
    lines = f.readlines()
    requests = []
    grants = []
    releases = []
    for index, line in enumerate(lines):
        if(index == 0): continue
        print(index)
        if ("REQUEST" in line):
            requests.append(int(line.split("-")[1]))
            continue
        if ("GRANTED" in line):
            if (len(grants) != len(releases)):
                print(line)
                print(len(grants))
                print(len(releases))
                raise Exception("Invalid log file: invalid grants and releases sequence")
            grants.append(int(line.split("-")[1]))
            continue
        if ("RELEASED" in line):
            if (len(releases) != len(grants) - 1):
                raise Exception("Invalid log file: invalid grants and releases sequence")
            releases.append(int(line.split("-")[1]))
            continue
        print(requests, grants, releases)
    for i in range(len(requests)):
        if (requests[i] != grants[i] or grants[i] != releases[i]):
            raise Exception("Invalid log file: invalid grants and releases sequence")

    print("Log file was successfully validated")

if __name__ == "__main__":
    validate()

```

Todos os arquivos a partir desse momento no relatório passaram com sucesso pelo processo de validação.



```

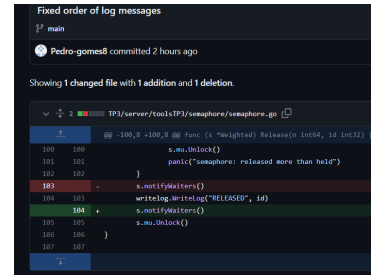
955
956
957
958
959
960
Log file was successfully validated

```

Após rodar os testes e tentativas de validar os logs, percebemos que a ordem entre escrever no arquivo de log

e enviar a mensagem estava equivocada - gerando 'GRANT's antes de 'RELEASE's. Após a correção rodamos novamente os testes.

Segunda Rodada de testes:



▼ Teste 1 de escalabilidade do sistema.

▼ $n = 2$, $r = 10$, e $k = 2$ - 38,241 segundos

▼ results.txt (20 linhas 2x10)

```
Process Id: 0 - 2023-07-17 17:16:58.305141
Process Id: 1 - 2023-07-17 17:17:00.319360
Process Id: 0 - 2023-07-17 17:17:02.331801
Process Id: 1 - 2023-07-17 17:17:04.346589
Process Id: 0 - 2023-07-17 17:17:06.349667
Process Id: 1 - 2023-07-17 17:17:08.367794
Process Id: 0 - 2023-07-17 17:17:10.379695
Process Id: 1 - 2023-07-17 17:17:12.385123
Process Id: 0 - 2023-07-17 17:17:14.401655
Process Id: 1 - 2023-07-17 17:17:16.412379
Process Id: 0 - 2023-07-17 17:17:18.426146
Process Id: 1 - 2023-07-17 17:17:20.444785
Process Id: 0 - 2023-07-17 17:17:22.459264
Process Id: 1 - 2023-07-17 17:17:24.463507
Process Id: 0 - 2023-07-17 17:17:26.482144
Process Id: 1 - 2023-07-17 17:17:28.495592
Process Id: 0 - 2023-07-17 17:17:30.505988
Process Id: 1 - 2023-07-17 17:17:32.520653
Process Id: 0 - 2023-07-17 17:17:34.536500
Process Id: 1 - 2023-07-17 17:17:36.546382
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 17:16:16.302601
GRANTED 0 2023-07-17 17:16:16.303629
REQUEST 1 2023-07-17 17:16:16.304148
RELEASED 0 2023-07-17 17:17:17.316235
GRANTED 1 2023-07-17 17:17:17.317345
REQUEST 0 2023-07-17 17:17:17.318726
RELEASED 1 2023-07-17 17:17:17.330005
GRANTED 0 2023-07-17 17:17:17.330005
```


REQUEST 1 2023-07-17 17:17:17.331801
RELEASED 0 2023-07-17 17:17:17.345627
GRANTED 1 2023-07-17 17:17:17.346084
REQUEST 0 2023-07-17 17:17:17.346589
RELEASED 1 2023-07-17 17:17:17.348710
GRANTED 0 2023-07-17 17:17:17.349163
REQUEST 1 2023-07-17 17:17:17.349667
RELEASED 0 2023-07-17 17:17:17.362672
GRANTED 1 2023-07-17 17:17:17.366726
REQUEST 0 2023-07-17 17:17:17.367268
RELEASED 1 2023-07-17 17:17:17.378115
GRANTED 0 2023-07-17 17:17:17.378664
REQUEST 1 2023-07-17 17:17:17.379169
RELEASED 0 2023-07-17 17:17:17.384049
GRANTED 1 2023-07-17 17:17:17.384593
REQUEST 0 2023-07-17 17:17:17.384593
RELEASED 1 2023-07-17 17:17:17.400618
GRANTED 0 2023-07-17 17:17:17.401122
REQUEST 1 2023-07-17 17:17:17.401122
RELEASED 0 2023-07-17 17:17:17.411352
GRANTED 1 2023-07-17 17:17:17.411352
REQUEST 0 2023-07-17 17:17:17.411857
RELEASED 1 2023-07-17 17:17:17.423045
GRANTED 0 2023-07-17 17:17:17.424118
REQUEST 1 2023-07-17 17:17:17.424736
RELEASED 0 2023-07-17 17:17:17.442032
GRANTED 1 2023-07-17 17:17:17.443345
REQUEST 0 2023-07-17 17:17:17.444219
RELEASED 1 2023-07-17 17:17:17.455092
GRANTED 0 2023-07-17 17:17:17.456716
REQUEST 1 2023-07-17 17:17:17.458077
RELEASED 0 2023-07-17 17:17:17.459997
GRANTED 1 2023-07-17 17:17:17.461307
REQUEST 0 2023-07-17 17:17:17.462440
RELEASED 1 2023-07-17 17:17:17.478406
GRANTED 0 2023-07-17 17:17:17.479740
REQUEST 1 2023-07-17 17:17:17.480930
RELEASED 0 2023-07-17 17:17:17.491039
GRANTED 1 2023-07-17 17:17:17.492747
REQUEST 0 2023-07-17 17:17:17.494162
RELEASED 1 2023-07-17 17:17:17.503007
GRANTED 0 2023-07-17 17:17:17.503941
REQUEST 1 2023-07-17 17:17:17.505163
RELEASED 0 2023-07-17 17:17:17.519088
GRANTED 1 2023-07-17 17:17:17.520108
REQUEST 0 2023-07-17 17:17:17.520653
RELEASED 1 2023-07-17 17:17:17.532110
GRANTED 0 2023-07-17 17:17:17.534430
REQUEST 1 2023-07-17 17:17:17.535738
RELEASED 0 2023-07-17 17:17:17.544858
GRANTED 1 2023-07-17 17:17:17.545845
RELEASED 1 2023-07-17 17:17:17.557780

▼ **n = 4, r = 10, e k = 2 - 78,687 segundos**

▼ results.txt (40 linhas 4x10)

```
Process Id: 0 - 2023-07-17 17:19:42.426839
Process Id: 2 - 2023-07-17 17:19:44.432405
Process Id: 1 - 2023-07-17 17:19:46.452579
Process Id: 3 - 2023-07-17 17:19:48.470325
Process Id: 0 - 2023-07-17 17:19:50.487298
Process Id: 2 - 2023-07-17 17:19:52.509304
Process Id: 1 - 2023-07-17 17:19:54.532697
Process Id: 3 - 2023-07-17 17:19:56.549142
Process Id: 0 - 2023-07-17 17:19:58.558853
Process Id: 2 - 2023-07-17 17:20:00.571264
Process Id: 1 - 2023-07-17 17:20:02.580204
Process Id: 3 - 2023-07-17 17:20:04.595085
Process Id: 0 - 2023-07-17 17:20:06.613292
Process Id: 2 - 2023-07-17 17:20:08.636104
Process Id: 1 - 2023-07-17 17:20:10.647731
Process Id: 3 - 2023-07-17 17:20:12.660433
Process Id: 0 - 2023-07-17 17:20:14.673557
Process Id: 2 - 2023-07-17 17:20:16.695859
Process Id: 1 - 2023-07-17 17:20:18.712242
Process Id: 3 - 2023-07-17 17:20:20.730280
Process Id: 0 - 2023-07-17 17:20:22.750273
Process Id: 2 - 2023-07-17 17:20:24.759113
Process Id: 1 - 2023-07-17 17:20:26.783128
Process Id: 3 - 2023-07-17 17:20:28.806881
Process Id: 0 - 2023-07-17 17:20:30.818644
Process Id: 2 - 2023-07-17 17:20:32.839548
Process Id: 1 - 2023-07-17 17:20:34.868760
Process Id: 3 - 2023-07-17 17:20:36.882065
Process Id: 0 - 2023-07-17 17:20:38.894821
Process Id: 2 - 2023-07-17 17:20:40.906720
Process Id: 1 - 2023-07-17 17:20:42.920795
Process Id: 3 - 2023-07-17 17:20:44.938612
Process Id: 0 - 2023-07-17 17:20:46.959691
Process Id: 2 - 2023-07-17 17:20:48.984828
Process Id: 1 - 2023-07-17 17:20:51.011068
Process Id: 3 - 2023-07-17 17:20:53.031755
Process Id: 0 - 2023-07-17 17:20:55.046324
Process Id: 2 - 2023-07-17 17:20:57.060135
Process Id: 1 - 2023-07-17 17:20:59.087298
Process Id: 3 - 2023-07-17 17:21:01.113508
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 17:19:19.424878
GRANTED 0 2023-07-17 17:19:19.425784
```

REQUEST 2 2023-07-17 17:19:19.451473
REQUEST 1 2023-07-17 17:19:19.466950
REQUEST 3 2023-07-17 17:19:19.482884
RELEASED 0 2023-07-17 17:19:19.430821
GRANTED 2 2023-07-17 17:19:19.431371
REQUEST 0 2023-07-17 17:19:19.431878
RELEASED 2 2023-07-17 17:19:19.449577
GRANTED 1 2023-07-17 17:19:19.450578
REQUEST 2 2023-07-17 17:19:19.451578
RELEASED 1 2023-07-17 17:19:19.468644
GRANTED 3 2023-07-17 17:19:19.469765
REQUEST 1 2023-07-17 17:19:19.469820
RELEASED 3 2023-07-17 17:19:19.481167
GRANTED 0 2023-07-17 17:19:19.482989
REQUEST 3 2023-07-17 17:19:19.484330
RELEASED 0 2023-07-17 17:19:19.506218
GRANTED 2 2023-07-17 17:19:19.507553
REQUEST 0 2023-07-17 17:19:19.508618
RELEASED 2 2023-07-17 17:19:19.530915
GRANTED 1 2023-07-17 17:19:19.531471
REQUEST 2 2023-07-17 17:19:19.532069
RELEASED 1 2023-07-17 17:19:19.544841
GRANTED 3 2023-07-17 17:19:19.546938
REQUEST 1 2023-07-17 17:19:19.547948
RELEASED 3 2023-07-17 17:19:19.557249
GRANTED 0 2023-07-17 17:19:19.558311
REQUEST 3 2023-07-17 17:19:19.558853
RELEASED 0 2023-07-17 17:20:20.566498
GRANTED 2 2023-07-17 17:20:20.568243
REQUEST 0 2023-07-17 17:20:20.569421
RELEASED 2 2023-07-17 17:20:20.579129
GRANTED 1 2023-07-17 17:20:20.579129
REQUEST 2 2023-07-17 17:20:20.579698
RELEASED 1 2023-07-17 17:20:20.594055
GRANTED 3 2023-07-17 17:20:20.594055
REQUEST 1 2023-07-17 17:20:20.594561
RELEASED 3 2023-07-17 17:20:20.608502
GRANTED 0 2023-07-17 17:20:20.610325
REQUEST 3 2023-07-17 17:20:20.611666
RELEASED 0 2023-07-17 17:20:20.631263
GRANTED 2 2023-07-17 17:20:20.632922
REQUEST 0 2023-07-17 17:20:20.634579
RELEASED 2 2023-07-17 17:20:20.643558
GRANTED 1 2023-07-17 17:20:20.645150
REQUEST 2 2023-07-17 17:20:20.646450
RELEASED 1 2023-07-17 17:20:20.656520
GRANTED 3 2023-07-17 17:20:20.658480
REQUEST 1 2023-07-17 17:20:20.659698
RELEASED 3 2023-07-17 17:20:20.669204
GRANTED 0 2023-07-17 17:20:20.670748
REQUEST 3 2023-07-17 17:20:20.672011
RELEASED 0 2023-07-17 17:20:20.694258
GRANTED 2 2023-07-17 17:20:20.695351
REQUEST 0 2023-07-17 17:20:20.695351
RELEASED 2 2023-07-17 17:20:20.709107

GRANTED 1 2023-07-17 17:20:20.711020
REQUEST 2 2023-07-17 17:20:20.711711
RELEASED 1 2023-07-17 17:20:20.727246
GRANTED 3 2023-07-17 17:20:20.728510
REQUEST 1 2023-07-17 17:20:20.729691
RELEASED 3 2023-07-17 17:20:20.748901
GRANTED 0 2023-07-17 17:20:20.749245
REQUEST 3 2023-07-17 17:20:20.749750
RELEASED 0 2023-07-17 17:20:20.758077
GRANTED 2 2023-07-17 17:20:20.758077
REQUEST 0 2023-07-17 17:20:20.758582
RELEASED 2 2023-07-17 17:20:20.779531
GRANTED 1 2023-07-17 17:20:20.780981
REQUEST 2 2023-07-17 17:20:20.781957
RELEASED 1 2023-07-17 17:20:20.805254
GRANTED 3 2023-07-17 17:20:20.806248
REQUEST 1 2023-07-17 17:20:20.806248
RELEASED 3 2023-07-17 17:20:20.817618
GRANTED 0 2023-07-17 17:20:20.817618
REQUEST 3 2023-07-17 17:20:20.818122
RELEASED 0 2023-07-17 17:20:20.834474
GRANTED 2 2023-07-17 17:20:20.835921
REQUEST 0 2023-07-17 17:20:20.837665
RELEASED 2 2023-07-17 17:20:20.867253
GRANTED 1 2023-07-17 17:20:20.867731
REQUEST 2 2023-07-17 17:20:20.868236
RELEASED 1 2023-07-17 17:20:20.877389
GRANTED 3 2023-07-17 17:20:20.879511
REQUEST 1 2023-07-17 17:20:20.880714
RELEASED 3 2023-07-17 17:20:20.893717
GRANTED 0 2023-07-17 17:20:20.894223
REQUEST 3 2023-07-17 17:20:20.894223
RELEASED 0 2023-07-17 17:20:20.905232
GRANTED 2 2023-07-17 17:20:20.905639
REQUEST 0 2023-07-17 17:20:20.906215
RELEASED 2 2023-07-17 17:20:20.918431
GRANTED 1 2023-07-17 17:20:20.919741
REQUEST 2 2023-07-17 17:20:20.920249
RELEASED 1 2023-07-17 17:20:20.936989
GRANTED 3 2023-07-17 17:20:20.938015
REQUEST 1 2023-07-17 17:20:20.938015
RELEASED 3 2023-07-17 17:20:20.954458
GRANTED 0 2023-07-17 17:20:20.956706
REQUEST 3 2023-07-17 17:20:20.957870
RELEASED 0 2023-07-17 17:20:20.980186
GRANTED 2 2023-07-17 17:20:20.982085
REQUEST 0 2023-07-17 17:20:20.983384
RELEASED 2 2023-07-17 17:20:20.010035
GRANTED 1 2023-07-17 17:20:20.010035
REQUEST 2 2023-07-17 17:20:20.010541
RELEASED 1 2023-07-17 17:20:20.030238
GRANTED 3 2023-07-17 17:20:20.030724
REQUEST 1 2023-07-17 17:20:20.031230
RELEASED 3 2023-07-17 17:20:20.044656
GRANTED 0 2023-07-17 17:20:20.045175

```
REQUEST 3 2023-07-17 17:20:20.045687
RELEASED 0 2023-07-17 17:20:20.055396
GRANTED 2 2023-07-17 17:20:20.057345
RELEASED 2 2023-07-17 17:20:20.085749
GRANTED 1 2023-07-17 17:20:20.086268
RELEASED 1 2023-07-17 17:21:21.109057
GRANTED 3 2023-07-17 17:21:21.110819
RELEASED 3 2023-07-17 17:21:21.132009
```

▼ **n = 8, r = 10, e k = 2 - 159,482 segundos**

▼ results.txt (80 linhas 8x10)

```
Process Id: 1 - 2023-07-17 17:23:59.944670
Process Id: 0 - 2023-07-17 17:24:01.955348
Process Id: 2 - 2023-07-17 17:24:03.992465
Process Id: 3 - 2023-07-17 17:24:06.016508
Process Id: 4 - 2023-07-17 17:24:08.041949
Process Id: 5 - 2023-07-17 17:24:10.070405
Process Id: 6 - 2023-07-17 17:24:12.088582
Process Id: 7 - 2023-07-17 17:24:14.111178
Process Id: 1 - 2023-07-17 17:24:16.128956
Process Id: 0 - 2023-07-17 17:24:18.145427
Process Id: 2 - 2023-07-17 17:24:20.164246
Process Id: 3 - 2023-07-17 17:24:22.170836
Process Id: 4 - 2023-07-17 17:24:24.188628
Process Id: 5 - 2023-07-17 17:24:26.202492
Process Id: 6 - 2023-07-17 17:24:28.215961
Process Id: 7 - 2023-07-17 17:24:30.227437
Process Id: 1 - 2023-07-17 17:24:32.252646
Process Id: 0 - 2023-07-17 17:24:34.265815
Process Id: 2 - 2023-07-17 17:24:36.294293
Process Id: 3 - 2023-07-17 17:24:38.313559
Process Id: 4 - 2023-07-17 17:24:40.323284
Process Id: 5 - 2023-07-17 17:24:42.337233
Process Id: 6 - 2023-07-17 17:24:44.350013
Process Id: 7 - 2023-07-17 17:24:46.361974
Process Id: 1 - 2023-07-17 17:24:48.369871
Process Id: 0 - 2023-07-17 17:24:50.385074
Process Id: 2 - 2023-07-17 17:24:52.407128
Process Id: 3 - 2023-07-17 17:24:54.427499
Process Id: 4 - 2023-07-17 17:24:56.443326
Process Id: 5 - 2023-07-17 17:24:58.457564
Process Id: 6 - 2023-07-17 17:25:00.475153
Process Id: 7 - 2023-07-17 17:25:02.483798
Process Id: 1 - 2023-07-17 17:25:04.502281
Process Id: 0 - 2023-07-17 17:25:06.523485
Process Id: 2 - 2023-07-17 17:25:08.543107
Process Id: 3 - 2023-07-17 17:25:10.568870
Process Id: 4 - 2023-07-17 17:25:12.607464
Process Id: 5 - 2023-07-17 17:25:14.635176
Process Id: 6 - 2023-07-17 17:25:16.665216
```

```
Process Id: 7 - 2023-07-17 17:25:18.685628
Process Id: 1 - 2023-07-17 17:25:20.698609
Process Id: 0 - 2023-07-17 17:25:22.726447
Process Id: 2 - 2023-07-17 17:25:24.751596
Process Id: 3 - 2023-07-17 17:25:26.779059
Process Id: 4 - 2023-07-17 17:25:28.798388
Process Id: 5 - 2023-07-17 17:25:30.817805
Process Id: 6 - 2023-07-17 17:25:32.833429
Process Id: 7 - 2023-07-17 17:25:34.843378
Process Id: 1 - 2023-07-17 17:25:36.857570
Process Id: 0 - 2023-07-17 17:25:38.884895
Process Id: 2 - 2023-07-17 17:25:40.909735
Process Id: 3 - 2023-07-17 17:25:42.919285
Process Id: 4 - 2023-07-17 17:25:44.931445
Process Id: 5 - 2023-07-17 17:25:46.947271
Process Id: 6 - 2023-07-17 17:25:48.961546
Process Id: 7 - 2023-07-17 17:25:50.981456
Process Id: 1 - 2023-07-17 17:25:53.003812
Process Id: 0 - 2023-07-17 17:25:55.024152
Process Id: 2 - 2023-07-17 17:25:57.043637
Process Id: 3 - 2023-07-17 17:25:59.054750
Process Id: 4 - 2023-07-17 17:26:01.067233
Process Id: 5 - 2023-07-17 17:26:03.080542
Process Id: 6 - 2023-07-17 17:26:05.091070
Process Id: 7 - 2023-07-17 17:26:07.109252
Process Id: 1 - 2023-07-17 17:26:09.122994
Process Id: 0 - 2023-07-17 17:26:11.133627
Process Id: 2 - 2023-07-17 17:26:13.157773
Process Id: 3 - 2023-07-17 17:26:15.170264
Process Id: 4 - 2023-07-17 17:26:17.185394
Process Id: 5 - 2023-07-17 17:26:19.204024
Process Id: 6 - 2023-07-17 17:26:21.215163
Process Id: 7 - 2023-07-17 17:26:23.236695
Process Id: 1 - 2023-07-17 17:26:25.250898
Process Id: 0 - 2023-07-17 17:26:27.273939
Process Id: 2 - 2023-07-17 17:26:29.300122
Process Id: 3 - 2023-07-17 17:26:31.330332
Process Id: 4 - 2023-07-17 17:26:33.349661
Process Id: 5 - 2023-07-17 17:26:35.376370
Process Id: 6 - 2023-07-17 17:26:37.414678
Process Id: 7 - 2023-07-17 17:26:39.426648
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 1 2023-07-17 17:23:23.943032
GRANTED 1 2023-07-17 17:23:23.943633
REQUEST 0 2023-07-17 17:23:23.944143
REQUEST 2 2023-07-17 17:23:23.970347
REQUEST 3 2023-07-17 17:24:24.001385
REQUEST 4 2023-07-17 17:24:24.017759
REQUEST 5 2023-07-17 17:24:24.033146
```

REQUEST 6 2023-07-17 17:24:24.049060
REQUEST 7 2023-07-17 17:24:24.081444
RELEASED 1 2023-07-17 17:24:24.950189
GRANTED 0 2023-07-17 17:24:24.951911
REQUEST 1 2023-07-17 17:24:24.952888
RELEASED 0 2023-07-17 17:24:24.987075
GRANTED 2 2023-07-17 17:24:24.988911
REQUEST 0 2023-07-17 17:24:24.990140
RELEASED 2 2023-07-17 17:24:24.010294
GRANTED 3 2023-07-17 17:24:24.016001
REQUEST 2 2023-07-17 17:24:24.016508
RELEASED 3 2023-07-17 17:24:24.037147
GRANTED 4 2023-07-17 17:24:24.038610
REQUEST 3 2023-07-17 17:24:24.040328
RELEASED 4 2023-07-17 17:24:24.066817
GRANTED 5 2023-07-17 17:24:24.068098
REQUEST 4 2023-07-17 17:24:24.069307
RELEASED 5 2023-07-17 17:24:24.084988
GRANTED 6 2023-07-17 17:24:24.086200
REQUEST 5 2023-07-17 17:24:24.087396
RELEASED 6 2023-07-17 17:24:24.108576
GRANTED 7 2023-07-17 17:24:24.109867
REQUEST 6 2023-07-17 17:24:24.110410
RELEASED 7 2023-07-17 17:24:24.124799
GRANTED 1 2023-07-17 17:24:24.127068
REQUEST 7 2023-07-17 17:24:24.128357
RELEASED 1 2023-07-17 17:24:24.141467
GRANTED 0 2023-07-17 17:24:24.143671
REQUEST 1 2023-07-17 17:24:24.144920
RELEASED 0 2023-07-17 17:24:24.160342
GRANTED 2 2023-07-17 17:24:24.162271
REQUEST 0 2023-07-17 17:24:24.163630
RELEASED 2 2023-07-17 17:24:24.169209
GRANTED 3 2023-07-17 17:24:24.170278
REQUEST 2 2023-07-17 17:24:24.170330
RELEASED 3 2023-07-17 17:24:24.183799
GRANTED 4 2023-07-17 17:24:24.185223
REQUEST 3 2023-07-17 17:24:24.186644
RELEASED 4 2023-07-17 17:24:24.198296
GRANTED 5 2023-07-17 17:24:24.199880
REQUEST 4 2023-07-17 17:24:24.201210
RELEASED 5 2023-07-17 17:24:24.212009
GRANTED 6 2023-07-17 17:24:24.214070
REQUEST 5 2023-07-17 17:24:24.215310
RELEASED 6 2023-07-17 17:24:24.222763
GRANTED 7 2023-07-17 17:24:24.224176
REQUEST 6 2023-07-17 17:24:24.225895
RELEASED 7 2023-07-17 17:24:24.247475
GRANTED 1 2023-07-17 17:24:24.249981
REQUEST 7 2023-07-17 17:24:24.251907
RELEASED 1 2023-07-17 17:24:24.261594
GRANTED 0 2023-07-17 17:24:24.263206
REQUEST 1 2023-07-17 17:24:24.264613
RELEASED 0 2023-07-17 17:24:24.289476
GRANTED 2 2023-07-17 17:24:24.291062

REQUEST 0 2023-07-17 17:24:24.292818
RELEASED 2 2023-07-17 17:24:24.311959
GRANTED 3 2023-07-17 17:24:24.313017
REQUEST 2 2023-07-17 17:24:24.313559
RELEASED 3 2023-07-17 17:24:24.321721
GRANTED 4 2023-07-17 17:24:24.322743
REQUEST 3 2023-07-17 17:24:24.322743
RELEASED 4 2023-07-17 17:24:24.332664
GRANTED 5 2023-07-17 17:24:24.334260
REQUEST 4 2023-07-17 17:24:24.335755
RELEASED 5 2023-07-17 17:24:24.346342
GRANTED 6 2023-07-17 17:24:24.347921
REQUEST 5 2023-07-17 17:24:24.349306
RELEASED 6 2023-07-17 17:24:24.357449
GRANTED 7 2023-07-17 17:24:24.359076
REQUEST 6 2023-07-17 17:24:24.360557
RELEASED 7 2023-07-17 17:24:24.368785
GRANTED 1 2023-07-17 17:24:24.368785
REQUEST 7 2023-07-17 17:24:24.369289
RELEASED 1 2023-07-17 17:24:24.383643
GRANTED 0 2023-07-17 17:24:24.384046
REQUEST 1 2023-07-17 17:24:24.384550
RELEASED 0 2023-07-17 17:24:24.402491
GRANTED 2 2023-07-17 17:24:24.404073
REQUEST 0 2023-07-17 17:24:24.405877
RELEASED 2 2023-07-17 17:24:24.426053
GRANTED 3 2023-07-17 17:24:24.426438
REQUEST 2 2023-07-17 17:24:24.426994
RELEASED 3 2023-07-17 17:24:24.441816
GRANTED 4 2023-07-17 17:24:24.441816
REQUEST 3 2023-07-17 17:24:24.442766
RELEASED 4 2023-07-17 17:24:24.453018
GRANTED 5 2023-07-17 17:24:24.454320
REQUEST 4 2023-07-17 17:24:24.456287
RELEASED 5 2023-07-17 17:25:25.473545
GRANTED 6 2023-07-17 17:25:25.474519
REQUEST 5 2023-07-17 17:25:25.475153
RELEASED 6 2023-07-17 17:25:25.481756
GRANTED 7 2023-07-17 17:25:25.481756
REQUEST 6 2023-07-17 17:25:25.482754
RELEASED 7 2023-07-17 17:25:25.500918
GRANTED 1 2023-07-17 17:25:25.501735
REQUEST 7 2023-07-17 17:25:25.501735
RELEASED 1 2023-07-17 17:25:25.521869
GRANTED 0 2023-07-17 17:25:25.521869
REQUEST 1 2023-07-17 17:25:25.522884
RELEASED 0 2023-07-17 17:25:25.538443
GRANTED 2 2023-07-17 17:25:25.540050
REQUEST 0 2023-07-17 17:25:25.541453
RELEASED 2 2023-07-17 17:25:25.564239
GRANTED 3 2023-07-17 17:25:25.565998
REQUEST 2 2023-07-17 17:25:25.567260
RELEASED 3 2023-07-17 17:25:25.603117
GRANTED 4 2023-07-17 17:25:25.604566
REQUEST 3 2023-07-17 17:25:25.605779

RELEASED 4 2023-07-17 17:25:25.631235
GRANTED 5 2023-07-17 17:25:25.632716
REQUEST 4 2023-07-17 17:25:25.633867
RELEASED 5 2023-07-17 17:25:25.657920
GRANTED 6 2023-07-17 17:25:25.660171
REQUEST 5 2023-07-17 17:25:25.663094
RELEASED 6 2023-07-17 17:25:25.684055
GRANTED 7 2023-07-17 17:25:25.684531
REQUEST 6 2023-07-17 17:25:25.685039
RELEASED 7 2023-07-17 17:25:25.694992
GRANTED 1 2023-07-17 17:25:25.696278
REQUEST 7 2023-07-17 17:25:25.697468
RELEASED 1 2023-07-17 17:25:25.722136
GRANTED 0 2023-07-17 17:25:25.724445
REQUEST 1 2023-07-17 17:25:25.725119
RELEASED 0 2023-07-17 17:25:25.746538
GRANTED 2 2023-07-17 17:25:25.748638
REQUEST 0 2023-07-17 17:25:25.749892
RELEASED 2 2023-07-17 17:25:25.778027
GRANTED 3 2023-07-17 17:25:25.778027
REQUEST 2 2023-07-17 17:25:25.778534
RELEASED 3 2023-07-17 17:25:25.793914
GRANTED 4 2023-07-17 17:25:25.795673
REQUEST 3 2023-07-17 17:25:25.796985
RELEASED 4 2023-07-17 17:25:25.816294
GRANTED 5 2023-07-17 17:25:25.817281
REQUEST 4 2023-07-17 17:25:25.817805
RELEASED 5 2023-07-17 17:25:25.828569
GRANTED 6 2023-07-17 17:25:25.830046
REQUEST 5 2023-07-17 17:25:25.831589
RELEASED 6 2023-07-17 17:25:25.840398
GRANTED 7 2023-07-17 17:25:25.842542
REQUEST 6 2023-07-17 17:25:25.842869
RELEASED 7 2023-07-17 17:25:25.855423
GRANTED 1 2023-07-17 17:25:25.856484
REQUEST 7 2023-07-17 17:25:25.857033
RELEASED 1 2023-07-17 17:25:25.880041
GRANTED 0 2023-07-17 17:25:25.881635
REQUEST 1 2023-07-17 17:25:25.883466
RELEASED 0 2023-07-17 17:25:25.905616
GRANTED 2 2023-07-17 17:25:25.907584
REQUEST 0 2023-07-17 17:25:25.908998
RELEASED 2 2023-07-17 17:25:25.916041
GRANTED 3 2023-07-17 17:25:25.918154
REQUEST 2 2023-07-17 17:25:25.918780
RELEASED 3 2023-07-17 17:25:25.926840
GRANTED 4 2023-07-17 17:25:25.928476
REQUEST 3 2023-07-17 17:25:25.929771
RELEASED 4 2023-07-17 17:25:25.945047
GRANTED 5 2023-07-17 17:25:25.946202
REQUEST 4 2023-07-17 17:25:25.946763
RELEASED 5 2023-07-17 17:25:25.959154
GRANTED 6 2023-07-17 17:25:25.960422
REQUEST 5 2023-07-17 17:25:25.960936
RELEASED 6 2023-07-17 17:25:25.976125

GRANTED 7 2023-07-17 17:25:25.978111
REQUEST 6 2023-07-17 17:25:25.979496
RELEASED 7 2023-07-17 17:25:25.999780
GRANTED 1 2023-07-17 17:25:25.001259
REQUEST 7 2023-07-17 17:25:25.002475
RELEASED 1 2023-07-17 17:25:25.022644
GRANTED 0 2023-07-17 17:25:25.023112
REQUEST 1 2023-07-17 17:25:25.023618
RELEASED 0 2023-07-17 17:25:25.042135
GRANTED 2 2023-07-17 17:25:25.043105
REQUEST 0 2023-07-17 17:25:25.043105
RELEASED 2 2023-07-17 17:25:25.053232
GRANTED 3 2023-07-17 17:25:25.053711
REQUEST 2 2023-07-17 17:25:25.054217
RELEASED 3 2023-07-17 17:26:26.062330
GRANTED 4 2023-07-17 17:26:26.063977
REQUEST 3 2023-07-17 17:26:26.065812
RELEASED 4 2023-07-17 17:26:26.079515
GRANTED 5 2023-07-17 17:26:26.079515
REQUEST 4 2023-07-17 17:26:26.080020
RELEASED 5 2023-07-17 17:26:26.089115
GRANTED 6 2023-07-17 17:26:26.090509
REQUEST 5 2023-07-17 17:26:26.090564
RELEASED 6 2023-07-17 17:26:26.107904
GRANTED 7 2023-07-17 17:26:26.108223
REQUEST 6 2023-07-17 17:26:26.108729
RELEASED 7 2023-07-17 17:26:26.121345
GRANTED 1 2023-07-17 17:26:26.122401
REQUEST 7 2023-07-17 17:26:26.122933
RELEASED 1 2023-07-17 17:26:26.130044
GRANTED 0 2023-07-17 17:26:26.131108
REQUEST 1 2023-07-17 17:26:26.132460
RELEASED 0 2023-07-17 17:26:26.156743
GRANTED 2 2023-07-17 17:26:26.156743
REQUEST 0 2023-07-17 17:26:26.157247
RELEASED 2 2023-07-17 17:26:26.167853
GRANTED 3 2023-07-17 17:26:26.169040
REQUEST 2 2023-07-17 17:26:26.169631
RELEASED 3 2023-07-17 17:26:26.180889
GRANTED 4 2023-07-17 17:26:26.182588
REQUEST 3 2023-07-17 17:26:26.183903
RELEASED 4 2023-07-17 17:26:26.202989
GRANTED 5 2023-07-17 17:26:26.202989
REQUEST 4 2023-07-17 17:26:26.203494
RELEASED 5 2023-07-17 17:26:26.213707
GRANTED 6 2023-07-17 17:26:26.214068
REQUEST 5 2023-07-17 17:26:26.214653
RELEASED 6 2023-07-17 17:26:26.235137
GRANTED 7 2023-07-17 17:26:26.236175
REQUEST 6 2023-07-17 17:26:26.236175
RELEASED 7 2023-07-17 17:26:26.249863
GRANTED 1 2023-07-17 17:26:26.250369
REQUEST 7 2023-07-17 17:26:26.250369
RELEASED 1 2023-07-17 17:26:26.269344
GRANTED 0 2023-07-17 17:26:26.271152

```
RELEASED 0 2023-07-17 17:26:26.294809
GRANTED 2 2023-07-17 17:26:26.297291
RELEASED 2 2023-07-17 17:26:26.328123
GRANTED 3 2023-07-17 17:26:26.329292
RELEASED 3 2023-07-17 17:26:26.345321
GRANTED 4 2023-07-17 17:26:26.346702
RELEASED 4 2023-07-17 17:26:26.369297
GRANTED 5 2023-07-17 17:26:26.371305
RELEASED 5 2023-07-17 17:26:26.409392
GRANTED 6 2023-07-17 17:26:26.411418
RELEASED 6 2023-07-17 17:26:26.421784
GRANTED 7 2023-07-17 17:26:26.423461
RELEASED 7 2023-07-17 17:26:26.445107
```

▼ **n = 16, r = 10, e k = 2 - 319,984 segundos**

▼ results.txt (160 linhas 16x10)

```
Process Id: 1 - 2023-07-17 18:16:19.241002
Process Id: 0 - 2023-07-17 18:16:21.255799
Process Id: 2 - 2023-07-17 18:16:23.263288
Process Id: 3 - 2023-07-17 18:16:25.272055
Process Id: 5 - 2023-07-17 18:16:27.283290
Process Id: 4 - 2023-07-17 18:16:29.300985
Process Id: 6 - 2023-07-17 18:16:31.314242
Process Id: 7 - 2023-07-17 18:16:33.326605
Process Id: 8 - 2023-07-17 18:16:35.336411
Process Id: 9 - 2023-07-17 18:16:37.353543
Process Id: 10 - 2023-07-17 18:16:39.373666
Process Id: 11 - 2023-07-17 18:16:41.381014
Process Id: 13 - 2023-07-17 18:16:43.400265
Process Id: 12 - 2023-07-17 18:16:45.409153
Process Id: 14 - 2023-07-17 18:16:47.419196
Process Id: 15 - 2023-07-17 18:16:49.434179
Process Id: 1 - 2023-07-17 18:16:51.451943
Process Id: 0 - 2023-07-17 18:16:53.464436
Process Id: 2 - 2023-07-17 18:16:55.470996
Process Id: 3 - 2023-07-17 18:16:57.482467
Process Id: 5 - 2023-07-17 18:16:59.505987
Process Id: 4 - 2023-07-17 18:17:01.527181
Process Id: 6 - 2023-07-17 18:17:03.550484
Process Id: 7 - 2023-07-17 18:17:05.564407
Process Id: 8 - 2023-07-17 18:17:07.574670
Process Id: 9 - 2023-07-17 18:17:09.596894
Process Id: 10 - 2023-07-17 18:17:11.616035
Process Id: 11 - 2023-07-17 18:17:13.627947
Process Id: 13 - 2023-07-17 18:17:15.639844
Process Id: 12 - 2023-07-17 18:17:17.654890
Process Id: 14 - 2023-07-17 18:17:19.673419
Process Id: 15 - 2023-07-17 18:17:21.689697
Process Id: 1 - 2023-07-17 18:17:23.701099
Process Id: 0 - 2023-07-17 18:17:25.713768
```

Process Id: 2 - 2023-07-17 18:17:27.726894
Process Id: 3 - 2023-07-17 18:17:29.755779
Process Id: 5 - 2023-07-17 18:17:31.772360
Process Id: 4 - 2023-07-17 18:17:33.792749
Process Id: 6 - 2023-07-17 18:17:35.818596
Process Id: 7 - 2023-07-17 18:17:37.845620
Process Id: 8 - 2023-07-17 18:17:39.876066
Process Id: 9 - 2023-07-17 18:17:41.893057
Process Id: 10 - 2023-07-17 18:17:43.902885
Process Id: 11 - 2023-07-17 18:17:45.917528
Process Id: 13 - 2023-07-17 18:17:47.939184
Process Id: 12 - 2023-07-17 18:17:49.949487
Process Id: 14 - 2023-07-17 18:17:51.969611
Process Id: 15 - 2023-07-17 18:17:53.992829
Process Id: 1 - 2023-07-17 18:17:56.012230
Process Id: 0 - 2023-07-17 18:17:58.032939
Process Id: 2 - 2023-07-17 18:18:00.052970
Process Id: 3 - 2023-07-17 18:18:02.059800
Process Id: 5 - 2023-07-17 18:18:04.074631
Process Id: 4 - 2023-07-17 18:18:06.083757
Process Id: 6 - 2023-07-17 18:18:08.091962
Process Id: 7 - 2023-07-17 18:18:10.111782
Process Id: 8 - 2023-07-17 18:18:12.132862
Process Id: 9 - 2023-07-17 18:18:14.141158
Process Id: 10 - 2023-07-17 18:18:16.148002
Process Id: 11 - 2023-07-17 18:18:18.170626
Process Id: 13 - 2023-07-17 18:18:20.187454
Process Id: 12 - 2023-07-17 18:18:22.193158
Process Id: 14 - 2023-07-17 18:18:24.202829
Process Id: 15 - 2023-07-17 18:18:26.208269
Process Id: 1 - 2023-07-17 18:18:28.218500
Process Id: 0 - 2023-07-17 18:18:30.226129
Process Id: 2 - 2023-07-17 18:18:32.238065
Process Id: 3 - 2023-07-17 18:18:34.252935
Process Id: 5 - 2023-07-17 18:18:36.256848
Process Id: 4 - 2023-07-17 18:18:38.269604
Process Id: 6 - 2023-07-17 18:18:40.287360
Process Id: 7 - 2023-07-17 18:18:42.293692
Process Id: 8 - 2023-07-17 18:18:44.306442
Process Id: 9 - 2023-07-17 18:18:46.317282
Process Id: 10 - 2023-07-17 18:18:48.323965
Process Id: 11 - 2023-07-17 18:18:50.341728
Process Id: 13 - 2023-07-17 18:18:52.355664
Process Id: 12 - 2023-07-17 18:18:54.364771
Process Id: 14 - 2023-07-17 18:18:56.382043
Process Id: 15 - 2023-07-17 18:18:58.384375
Process Id: 1 - 2023-07-17 18:19:00.389102
Process Id: 0 - 2023-07-17 18:19:02.406467
Process Id: 2 - 2023-07-17 18:19:04.417881
Process Id: 3 - 2023-07-17 18:19:06.430895
Process Id: 5 - 2023-07-17 18:19:08.433287
Process Id: 4 - 2023-07-17 18:19:10.441726
Process Id: 6 - 2023-07-17 18:19:12.443646
Process Id: 7 - 2023-07-17 18:19:14.454039
Process Id: 8 - 2023-07-17 18:19:16.464420

Process Id: 9 - 2023-07-17 18:19:18.471411
Process Id: 10 - 2023-07-17 18:19:20.474413
Process Id: 11 - 2023-07-17 18:19:22.479403
Process Id: 13 - 2023-07-17 18:19:24.489591
Process Id: 12 - 2023-07-17 18:19:26.501454
Process Id: 14 - 2023-07-17 18:19:28.517190
Process Id: 15 - 2023-07-17 18:19:30.532217
Process Id: 1 - 2023-07-17 18:19:32.549616
Process Id: 0 - 2023-07-17 18:19:34.554178
Process Id: 2 - 2023-07-17 18:19:36.558032
Process Id: 3 - 2023-07-17 18:19:38.560790
Process Id: 5 - 2023-07-17 18:19:40.573465
Process Id: 4 - 2023-07-17 18:19:42.577363
Process Id: 6 - 2023-07-17 18:19:44.587758
Process Id: 7 - 2023-07-17 18:19:46.591459
Process Id: 8 - 2023-07-17 18:19:48.606124
Process Id: 9 - 2023-07-17 18:19:50.621873
Process Id: 10 - 2023-07-17 18:19:52.627422
Process Id: 11 - 2023-07-17 18:19:54.633029
Process Id: 13 - 2023-07-17 18:19:56.648075
Process Id: 12 - 2023-07-17 18:19:58.656145
Process Id: 14 - 2023-07-17 18:20:00.672463
Process Id: 15 - 2023-07-17 18:20:02.686514
Process Id: 1 - 2023-07-17 18:20:04.689669
Process Id: 0 - 2023-07-17 18:20:06.702665
Process Id: 2 - 2023-07-17 18:20:08.710337
Process Id: 3 - 2023-07-17 18:20:10.723188
Process Id: 5 - 2023-07-17 18:20:12.733773
Process Id: 4 - 2023-07-17 18:20:14.745325
Process Id: 6 - 2023-07-17 18:20:16.760241
Process Id: 7 - 2023-07-17 18:20:18.768534
Process Id: 8 - 2023-07-17 18:20:20.774338
Process Id: 9 - 2023-07-17 18:20:22.779328
Process Id: 10 - 2023-07-17 18:20:24.796554
Process Id: 11 - 2023-07-17 18:20:26.812389
Process Id: 13 - 2023-07-17 18:20:28.818125
Process Id: 12 - 2023-07-17 18:20:30.824631
Process Id: 14 - 2023-07-17 18:20:32.833899
Process Id: 15 - 2023-07-17 18:20:34.837604
Process Id: 1 - 2023-07-17 18:20:36.902041
Process Id: 0 - 2023-07-17 18:20:38.913418
Process Id: 2 - 2023-07-17 18:20:40.921226
Process Id: 3 - 2023-07-17 18:20:42.937511
Process Id: 5 - 2023-07-17 18:20:44.948419
Process Id: 4 - 2023-07-17 18:20:46.956216
Process Id: 6 - 2023-07-17 18:20:48.963878
Process Id: 7 - 2023-07-17 18:20:50.985124
Process Id: 8 - 2023-07-17 18:20:53.000090
Process Id: 9 - 2023-07-17 18:20:55.010493
Process Id: 10 - 2023-07-17 18:20:57.016560
Process Id: 11 - 2023-07-17 18:20:59.022405
Process Id: 13 - 2023-07-17 18:21:01.031484
Process Id: 12 - 2023-07-17 18:21:03.043734
Process Id: 14 - 2023-07-17 18:21:05.060685
Process Id: 15 - 2023-07-17 18:21:07.065674

```
Process Id: 1 - 2023-07-17 18:21:09.081522
Process Id: 0 - 2023-07-17 18:21:11.088880
Process Id: 2 - 2023-07-17 18:21:13.097469
Process Id: 3 - 2023-07-17 18:21:15.104074
Process Id: 5 - 2023-07-17 18:21:17.113152
Process Id: 4 - 2023-07-17 18:21:19.120979
Process Id: 6 - 2023-07-17 18:21:21.131468
Process Id: 7 - 2023-07-17 18:21:23.140674
Process Id: 8 - 2023-07-17 18:21:25.148225
Process Id: 9 - 2023-07-17 18:21:27.163932
Process Id: 10 - 2023-07-17 18:21:29.179256
Process Id: 11 - 2023-07-17 18:21:31.191443
Process Id: 13 - 2023-07-17 18:21:33.197879
Process Id: 12 - 2023-07-17 18:21:35.212940
Process Id: 14 - 2023-07-17 18:21:37.220148
Process Id: 15 - 2023-07-17 18:21:39.224565
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 1 2023-07-17 18:16:16.238361
GRANTED 1 2023-07-17 18:16:16.239401
REQUEST 0 2023-07-17 18:16:16.239927
REQUEST 2 2023-07-17 18:16:16.253700
REQUEST 3 2023-07-17 18:16:16.332294
REQUEST 5 2023-07-17 18:16:16.363548
REQUEST 4 2023-07-17 18:16:16.364052
REQUEST 6 2023-07-17 18:16:16.408838
REQUEST 7 2023-07-17 18:16:16.486502
REQUEST 8 2023-07-17 18:16:16.597275
REQUEST 9 2023-07-17 18:16:16.657264
REQUEST 10 2023-07-17 18:16:16.688407
REQUEST 11 2023-07-17 18:16:16.703525
REQUEST 13 2023-07-17 18:16:16.766401
REQUEST 12 2023-07-17 18:16:16.766937
REQUEST 14 2023-07-17 18:16:16.811157
REQUEST 15 2023-07-17 18:16:16.842389
RELEASED 1 2023-07-17 18:16:16.254097
GRANTED 0 2023-07-17 18:16:16.255117
REQUEST 1 2023-07-17 18:16:16.255667
RELEASED 0 2023-07-17 18:16:16.261732
GRANTED 2 2023-07-17 18:16:16.262238
REQUEST 0 2023-07-17 18:16:16.262763
RELEASED 2 2023-07-17 18:16:16.271009
GRANTED 3 2023-07-17 18:16:16.271009
REQUEST 2 2023-07-17 18:16:16.271515
RELEASED 3 2023-07-17 18:16:16.280331
GRANTED 5 2023-07-17 18:16:16.281123
REQUEST 3 2023-07-17 18:16:16.282185
RELEASED 5 2023-07-17 18:16:16.299433
GRANTED 4 2023-07-17 18:16:16.299937
REQUEST 5 2023-07-17 18:16:16.300463
```

RELEASED 4 2023-07-17 18:16:16.312742
GRANTED 6 2023-07-17 18:16:16.313210
REQUEST 4 2023-07-17 18:16:16.313715
RELEASED 6 2023-07-17 18:16:16.325135
GRANTED 7 2023-07-17 18:16:16.325577
REQUEST 6 2023-07-17 18:16:16.326080
RELEASED 7 2023-07-17 18:16:16.334020
GRANTED 8 2023-07-17 18:16:16.335383
REQUEST 7 2023-07-17 18:16:16.335888
RELEASED 8 2023-07-17 18:16:16.352077
GRANTED 9 2023-07-17 18:16:16.352441
REQUEST 8 2023-07-17 18:16:16.352998
RELEASED 9 2023-07-17 18:16:16.372565
GRANTED 10 2023-07-17 18:16:16.372565
REQUEST 9 2023-07-17 18:16:16.373159
RELEASED 10 2023-07-17 18:16:16.379930
GRANTED 11 2023-07-17 18:16:16.379930
REQUEST 10 2023-07-17 18:16:16.380509
RELEASED 11 2023-07-17 18:16:16.398767
GRANTED 13 2023-07-17 18:16:16.399759
REQUEST 11 2023-07-17 18:16:16.399759
RELEASED 13 2023-07-17 18:16:16.406703
GRANTED 12 2023-07-17 18:16:16.407999
REQUEST 13 2023-07-17 18:16:16.408646
RELEASED 12 2023-07-17 18:16:16.417699
GRANTED 14 2023-07-17 18:16:16.418158
REQUEST 12 2023-07-17 18:16:16.418665
RELEASED 14 2023-07-17 18:16:16.432760
GRANTED 15 2023-07-17 18:16:16.433144
REQUEST 14 2023-07-17 18:16:16.433651
RELEASED 15 2023-07-17 18:16:16.450879
GRANTED 1 2023-07-17 18:16:16.450879
REQUEST 15 2023-07-17 18:16:16.451437
RELEASED 1 2023-07-17 18:16:16.462240
GRANTED 0 2023-07-17 18:16:16.463358
REQUEST 1 2023-07-17 18:16:16.463893
RELEASED 0 2023-07-17 18:16:16.469647
GRANTED 2 2023-07-17 18:16:16.469957
REQUEST 0 2023-07-17 18:16:16.470463
RELEASED 2 2023-07-17 18:16:16.477724
GRANTED 3 2023-07-17 18:16:16.479421
REQUEST 2 2023-07-17 18:16:16.480701
RELEASED 3 2023-07-17 18:16:16.504619
GRANTED 5 2023-07-17 18:16:16.504953
REQUEST 3 2023-07-17 18:16:16.505459
RELEASED 5 2023-07-17 18:17:17.523525
GRANTED 4 2023-07-17 18:17:17.524897
REQUEST 5 2023-07-17 18:17:17.526088
RELEASED 4 2023-07-17 18:17:17.547963
GRANTED 6 2023-07-17 18:17:17.548914
REQUEST 4 2023-07-17 18:17:17.549440
RELEASED 6 2023-07-17 18:17:17.563335
GRANTED 7 2023-07-17 18:17:17.563899
REQUEST 6 2023-07-17 18:17:17.564407
RELEASED 7 2023-07-17 18:17:17.572389

GRANTED 8 2023-07-17 18:17:17.572966
REQUEST 7 2023-07-17 18:17:17.574163
RELEASED 8 2023-07-17 18:17:17.595190
GRANTED 9 2023-07-17 18:17:17.595666
REQUEST 8 2023-07-17 18:17:17.596894
RELEASED 9 2023-07-17 18:17:17.614981
GRANTED 10 2023-07-17 18:17:17.614981
REQUEST 9 2023-07-17 18:17:17.615486
RELEASED 10 2023-07-17 18:17:17.626360
GRANTED 11 2023-07-17 18:17:17.626865
REQUEST 10 2023-07-17 18:17:17.627419
RELEASED 11 2023-07-17 18:17:17.638740
GRANTED 13 2023-07-17 18:17:17.639324
REQUEST 11 2023-07-17 18:17:17.639844
RELEASED 13 2023-07-17 18:17:17.650872
GRANTED 12 2023-07-17 18:17:17.654370
REQUEST 13 2023-07-17 18:17:17.654890
RELEASED 12 2023-07-17 18:17:17.671944
GRANTED 14 2023-07-17 18:17:17.672328
REQUEST 12 2023-07-17 18:17:17.672834
RELEASED 14 2023-07-17 18:17:17.688248
GRANTED 15 2023-07-17 18:17:17.689174
REQUEST 14 2023-07-17 18:17:17.689174
RELEASED 15 2023-07-17 18:17:17.700069
GRANTED 1 2023-07-17 18:17:17.700574
REQUEST 15 2023-07-17 18:17:17.701099
RELEASED 1 2023-07-17 18:17:17.712731
GRANTED 0 2023-07-17 18:17:17.712731
REQUEST 1 2023-07-17 18:17:17.713238
RELEASED 0 2023-07-17 18:17:17.722715
GRANTED 2 2023-07-17 18:17:17.724508
REQUEST 0 2023-07-17 18:17:17.725795
RELEASED 2 2023-07-17 18:17:17.754751
GRANTED 3 2023-07-17 18:17:17.754751
REQUEST 2 2023-07-17 18:17:17.755255
RELEASED 3 2023-07-17 18:17:17.770408
GRANTED 5 2023-07-17 18:17:17.771352
REQUEST 3 2023-07-17 18:17:17.771352
RELEASED 5 2023-07-17 18:17:17.791691
GRANTED 4 2023-07-17 18:17:17.791691
REQUEST 5 2023-07-17 18:17:17.792196
RELEASED 4 2023-07-17 18:17:17.813658
GRANTED 6 2023-07-17 18:17:17.815592
REQUEST 4 2023-07-17 18:17:17.816799
RELEASED 6 2023-07-17 18:17:17.841036
GRANTED 7 2023-07-17 18:17:17.842324
REQUEST 6 2023-07-17 18:17:17.843639
RELEASED 7 2023-07-17 18:17:17.874369
GRANTED 8 2023-07-17 18:17:17.875019
REQUEST 7 2023-07-17 18:17:17.875542
RELEASED 8 2023-07-17 18:17:17.891410
GRANTED 9 2023-07-17 18:17:17.891918
REQUEST 8 2023-07-17 18:17:17.892446
RELEASED 9 2023-07-17 18:17:17.901858
GRANTED 10 2023-07-17 18:17:17.901858

REQUEST 9 2023-07-17 18:17:17.902362
RELEASED 10 2023-07-17 18:17:17.916004
GRANTED 11 2023-07-17 18:17:17.916994
REQUEST 10 2023-07-17 18:17:17.916994
RELEASED 11 2023-07-17 18:17:17.937686
GRANTED 13 2023-07-17 18:17:17.938163
REQUEST 11 2023-07-17 18:17:17.938668
RELEASED 13 2023-07-17 18:17:17.946012
GRANTED 12 2023-07-17 18:17:17.947214
REQUEST 13 2023-07-17 18:17:17.948365
RELEASED 12 2023-07-17 18:17:17.966536
GRANTED 14 2023-07-17 18:17:17.967560
REQUEST 12 2023-07-17 18:17:17.968095
RELEASED 14 2023-07-17 18:17:17.991218
GRANTED 15 2023-07-17 18:17:17.991730
REQUEST 14 2023-07-17 18:17:17.992286
RELEASED 15 2023-07-17 18:17:17.011206
GRANTED 1 2023-07-17 18:17:17.011206
REQUEST 15 2023-07-17 18:17:17.011710
RELEASED 1 2023-07-17 18:17:17.029366
GRANTED 0 2023-07-17 18:17:17.031260
REQUEST 1 2023-07-17 18:17:17.032317
RELEASED 0 2023-07-17 18:18:18.051491
GRANTED 2 2023-07-17 18:18:18.052431
REQUEST 0 2023-07-17 18:18:18.052431
RELEASED 2 2023-07-17 18:18:18.058300
GRANTED 3 2023-07-17 18:18:18.058300
REQUEST 2 2023-07-17 18:18:18.059294
RELEASED 3 2023-07-17 18:18:18.073598
GRANTED 5 2023-07-17 18:18:18.074106
REQUEST 3 2023-07-17 18:18:18.074106
RELEASED 5 2023-07-17 18:18:18.082233
GRANTED 4 2023-07-17 18:18:18.082693
REQUEST 5 2023-07-17 18:18:18.083253
RELEASED 4 2023-07-17 18:18:18.089743
GRANTED 6 2023-07-17 18:18:18.090772
REQUEST 4 2023-07-17 18:18:18.091504
RELEASED 6 2023-07-17 18:18:18.110303
GRANTED 7 2023-07-17 18:18:18.110720
REQUEST 6 2023-07-17 18:18:18.111278
RELEASED 7 2023-07-17 18:18:18.131507
GRANTED 8 2023-07-17 18:18:18.131825
REQUEST 7 2023-07-17 18:18:18.132331
RELEASED 8 2023-07-17 18:18:18.139563
GRANTED 9 2023-07-17 18:18:18.140588
REQUEST 8 2023-07-17 18:18:18.141158
RELEASED 9 2023-07-17 18:18:18.146490
GRANTED 10 2023-07-17 18:18:18.146490
REQUEST 9 2023-07-17 18:18:18.147464
RELEASED 10 2023-07-17 18:18:18.169196
GRANTED 11 2023-07-17 18:18:18.170097
REQUEST 10 2023-07-17 18:18:18.170097
RELEASED 11 2023-07-17 18:18:18.181668
GRANTED 13 2023-07-17 18:18:18.184291
REQUEST 11 2023-07-17 18:18:18.186070

RELEASED 13 2023-07-17 18:18:18.191580
GRANTED 12 2023-07-17 18:18:18.192084
REQUEST 13 2023-07-17 18:18:18.192630
RELEASED 12 2023-07-17 18:18:18.201438
GRANTED 14 2023-07-17 18:18:18.201796
REQUEST 12 2023-07-17 18:18:18.202303
RELEASED 14 2023-07-17 18:18:18.206697
GRANTED 15 2023-07-17 18:18:18.206697
REQUEST 14 2023-07-17 18:18:18.207725
RELEASED 15 2023-07-17 18:18:18.213090
GRANTED 1 2023-07-17 18:18:18.214763
REQUEST 15 2023-07-17 18:18:18.216532
RELEASED 1 2023-07-17 18:18:18.224645
GRANTED 0 2023-07-17 18:18:18.225022
REQUEST 1 2023-07-17 18:18:18.225530
RELEASED 0 2023-07-17 18:18:18.236997
GRANTED 2 2023-07-17 18:18:18.236997
REQUEST 0 2023-07-17 18:18:18.237560
RELEASED 2 2023-07-17 18:18:18.251540
GRANTED 3 2023-07-17 18:18:18.251906
REQUEST 2 2023-07-17 18:18:18.252410
RELEASED 3 2023-07-17 18:18:18.255814
GRANTED 5 2023-07-17 18:18:18.255814
REQUEST 3 2023-07-17 18:18:18.256321
RELEASED 5 2023-07-17 18:18:18.264013
GRANTED 4 2023-07-17 18:18:18.266201
REQUEST 5 2023-07-17 18:18:18.267853
RELEASED 4 2023-07-17 18:18:18.283381
GRANTED 6 2023-07-17 18:18:18.285024
REQUEST 4 2023-07-17 18:18:18.286255
RELEASED 6 2023-07-17 18:18:18.292665
GRANTED 7 2023-07-17 18:18:18.292665
REQUEST 6 2023-07-17 18:18:18.293168
RELEASED 7 2023-07-17 18:18:18.304984
GRANTED 8 2023-07-17 18:18:18.305375
REQUEST 7 2023-07-17 18:18:18.305936
RELEASED 8 2023-07-17 18:18:18.313333
GRANTED 9 2023-07-17 18:18:18.315206
REQUEST 8 2023-07-17 18:18:18.316063
RELEASED 9 2023-07-17 18:18:18.322931
GRANTED 10 2023-07-17 18:18:18.322931
REQUEST 9 2023-07-17 18:18:18.323436
RELEASED 10 2023-07-17 18:18:18.339519
GRANTED 11 2023-07-17 18:18:18.340026
REQUEST 10 2023-07-17 18:18:18.341000
RELEASED 11 2023-07-17 18:18:18.354169
GRANTED 13 2023-07-17 18:18:18.355075
REQUEST 11 2023-07-17 18:18:18.355664
RELEASED 13 2023-07-17 18:18:18.362461
GRANTED 12 2023-07-17 18:18:18.363713
REQUEST 13 2023-07-17 18:18:18.364236
RELEASED 12 2023-07-17 18:18:18.381008
GRANTED 14 2023-07-17 18:18:18.381516
REQUEST 12 2023-07-17 18:18:18.382043
RELEASED 14 2023-07-17 18:18:18.383344

GRANTED 15 2023-07-17 18:18:18.383344
REQUEST 14 2023-07-17 18:18:18.383849
RELEASED 15 2023-07-17 18:19:19.388083
GRANTED 1 2023-07-17 18:19:19.388083
REQUEST 15 2023-07-17 18:19:19.388587
RELEASED 1 2023-07-17 18:19:19.405437
GRANTED 0 2023-07-17 18:19:19.405437
REQUEST 1 2023-07-17 18:19:19.405943
RELEASED 0 2023-07-17 18:19:19.416844
GRANTED 2 2023-07-17 18:19:19.417350
REQUEST 0 2023-07-17 18:19:19.417881
RELEASED 2 2023-07-17 18:19:19.428225
GRANTED 3 2023-07-17 18:19:19.429732
REQUEST 2 2023-07-17 18:19:19.430390
RELEASED 3 2023-07-17 18:19:19.431612
GRANTED 5 2023-07-17 18:19:19.432120
REQUEST 3 2023-07-17 18:19:19.432646
RELEASED 5 2023-07-17 18:19:19.440640
GRANTED 4 2023-07-17 18:19:19.440640
REQUEST 5 2023-07-17 18:19:19.441221
RELEASED 4 2023-07-17 18:19:19.442267
GRANTED 6 2023-07-17 18:19:19.442614
REQUEST 4 2023-07-17 18:19:19.443120
RELEASED 6 2023-07-17 18:19:19.452487
GRANTED 7 2023-07-17 18:19:19.452993
REQUEST 6 2023-07-17 18:19:19.453520
RELEASED 7 2023-07-17 18:19:19.461358
GRANTED 8 2023-07-17 18:19:19.462193
REQUEST 7 2023-07-17 18:19:19.463839
RELEASED 8 2023-07-17 18:19:19.469815
GRANTED 9 2023-07-17 18:19:19.470321
REQUEST 8 2023-07-17 18:19:19.470905
RELEASED 9 2023-07-17 18:19:19.473376
GRANTED 10 2023-07-17 18:19:19.473376
REQUEST 9 2023-07-17 18:19:19.473881
RELEASED 10 2023-07-17 18:19:19.477894
GRANTED 11 2023-07-17 18:19:19.477894
REQUEST 10 2023-07-17 18:19:19.478896
RELEASED 11 2023-07-17 18:19:19.488150
GRANTED 13 2023-07-17 18:19:19.489083
REQUEST 11 2023-07-17 18:19:19.489083
RELEASED 13 2023-07-17 18:19:19.499074
GRANTED 12 2023-07-17 18:19:19.500102
REQUEST 13 2023-07-17 18:19:19.500908
RELEASED 12 2023-07-17 18:19:19.514912
GRANTED 14 2023-07-17 18:19:19.515998
REQUEST 12 2023-07-17 18:19:19.516584
RELEASED 14 2023-07-17 18:19:19.528144
GRANTED 15 2023-07-17 18:19:19.529108
REQUEST 14 2023-07-17 18:19:19.531024
RELEASED 15 2023-07-17 18:19:19.548115
GRANTED 1 2023-07-17 18:19:19.548115
REQUEST 15 2023-07-17 18:19:19.549108
RELEASED 1 2023-07-17 18:19:19.551051
GRANTED 0 2023-07-17 18:19:19.552124

REQUEST 1 2023-07-17 18:19:19.552780
RELEASED 0 2023-07-17 18:19:19.556631
GRANTED 2 2023-07-17 18:19:19.557000
REQUEST 0 2023-07-17 18:19:19.557504
RELEASED 2 2023-07-17 18:19:19.559373
GRANTED 3 2023-07-17 18:19:19.559711
REQUEST 2 2023-07-17 18:19:19.560262
RELEASED 3 2023-07-17 18:19:19.572439
GRANTED 5 2023-07-17 18:19:19.572439
REQUEST 3 2023-07-17 18:19:19.572944
RELEASED 5 2023-07-17 18:19:19.575932
GRANTED 4 2023-07-17 18:19:19.576341
REQUEST 5 2023-07-17 18:19:19.576847
RELEASED 4 2023-07-17 18:19:19.586244
GRANTED 6 2023-07-17 18:19:19.587223
REQUEST 4 2023-07-17 18:19:19.587758
RELEASED 6 2023-07-17 18:19:19.590426
GRANTED 7 2023-07-17 18:19:19.590426
REQUEST 6 2023-07-17 18:19:19.590932
RELEASED 7 2023-07-17 18:19:19.600265
GRANTED 8 2023-07-17 18:19:19.602180
REQUEST 7 2023-07-17 18:19:19.604350
RELEASED 8 2023-07-17 18:19:19.620587
GRANTED 9 2023-07-17 18:19:19.621244
REQUEST 8 2023-07-17 18:19:19.621873
RELEASED 9 2023-07-17 18:19:19.625873
GRANTED 10 2023-07-17 18:19:19.626333
REQUEST 9 2023-07-17 18:19:19.626840
RELEASED 10 2023-07-17 18:19:19.628912
GRANTED 11 2023-07-17 18:19:19.630620
REQUEST 10 2023-07-17 18:19:19.631714
RELEASED 11 2023-07-17 18:19:19.646732
GRANTED 13 2023-07-17 18:19:19.647238
REQUEST 11 2023-07-17 18:19:19.647568
RELEASED 13 2023-07-17 18:19:19.653374
GRANTED 12 2023-07-17 18:19:19.654494
REQUEST 13 2023-07-17 18:19:19.655037
RELEASED 12 2023-07-17 18:20:20.671430
GRANTED 14 2023-07-17 18:20:20.671430
REQUEST 12 2023-07-17 18:20:20.671936
RELEASED 14 2023-07-17 18:20:20.685430
GRANTED 15 2023-07-17 18:20:20.685935
REQUEST 14 2023-07-17 18:20:20.686009
RELEASED 15 2023-07-17 18:20:20.688119
GRANTED 1 2023-07-17 18:20:20.688119
REQUEST 15 2023-07-17 18:20:20.689138
RELEASED 1 2023-07-17 18:20:20.701594
GRANTED 0 2023-07-17 18:20:20.701594
REQUEST 1 2023-07-17 18:20:20.702160
RELEASED 0 2023-07-17 18:20:20.709205
GRANTED 2 2023-07-17 18:20:20.709205
REQUEST 0 2023-07-17 18:20:20.709771
RELEASED 2 2023-07-17 18:20:20.722167
GRANTED 3 2023-07-17 18:20:20.722167
REQUEST 2 2023-07-17 18:20:20.722672

RELEASED 3 2023-07-17 18:20:20.729186
GRANTED 5 2023-07-17 18:20:20.729692
REQUEST 3 2023-07-17 18:20:20.731677
RELEASED 5 2023-07-17 18:20:20.743775
GRANTED 4 2023-07-17 18:20:20.744282
REQUEST 5 2023-07-17 18:20:20.744788
RELEASED 4 2023-07-17 18:20:20.758702
GRANTED 6 2023-07-17 18:20:20.759160
REQUEST 4 2023-07-17 18:20:20.759728
RELEASED 6 2023-07-17 18:20:20.765102
GRANTED 7 2023-07-17 18:20:20.766250
REQUEST 6 2023-07-17 18:20:20.767384
RELEASED 7 2023-07-17 18:20:20.773315
GRANTED 8 2023-07-17 18:20:20.773315
REQUEST 7 2023-07-17 18:20:20.773818
RELEASED 8 2023-07-17 18:20:20.777777
GRANTED 9 2023-07-17 18:20:20.777777
REQUEST 8 2023-07-17 18:20:20.778769
RELEASED 9 2023-07-17 18:20:20.795434
GRANTED 10 2023-07-17 18:20:20.795990
REQUEST 9 2023-07-17 18:20:20.796497
RELEASED 10 2023-07-17 18:20:20.811356
GRANTED 11 2023-07-17 18:20:20.811861
REQUEST 10 2023-07-17 18:20:20.811861
RELEASED 11 2023-07-17 18:20:20.816549
GRANTED 13 2023-07-17 18:20:20.817055
REQUEST 11 2023-07-17 18:20:20.817579
RELEASED 13 2023-07-17 18:20:20.822976
GRANTED 12 2023-07-17 18:20:20.823543
REQUEST 13 2023-07-17 18:20:20.824050
RELEASED 12 2023-07-17 18:20:20.832336
GRANTED 14 2023-07-17 18:20:20.832842
REQUEST 12 2023-07-17 18:20:20.833367
RELEASED 14 2023-07-17 18:20:20.836585
GRANTED 15 2023-07-17 18:20:20.836585
REQUEST 14 2023-07-17 18:20:20.837090
RELEASED 15 2023-07-17 18:20:20.869017
GRANTED 1 2023-07-17 18:20:20.872029
REQUEST 15 2023-07-17 18:20:20.883378
RELEASED 1 2023-07-17 18:20:20.912395
GRANTED 0 2023-07-17 18:20:20.912395
REQUEST 1 2023-07-17 18:20:20.912900
RELEASED 0 2023-07-17 18:20:20.920115
GRANTED 2 2023-07-17 18:20:20.920620
REQUEST 0 2023-07-17 18:20:20.920620
RELEASED 2 2023-07-17 18:20:20.934757
GRANTED 3 2023-07-17 18:20:20.935888
REQUEST 2 2023-07-17 18:20:20.937247
RELEASED 3 2023-07-17 18:20:20.947383
GRANTED 5 2023-07-17 18:20:20.947889
REQUEST 3 2023-07-17 18:20:20.947889
RELEASED 5 2023-07-17 18:20:20.955186
GRANTED 4 2023-07-17 18:20:20.955186
REQUEST 5 2023-07-17 18:20:20.955691
RELEASED 4 2023-07-17 18:20:20.961203

GRANTED 6 2023-07-17 18:20:20.962176
REQUEST 4 2023-07-17 18:20:20.962800
RELEASED 6 2023-07-17 18:20:20.979266
GRANTED 7 2023-07-17 18:20:20.981498
REQUEST 6 2023-07-17 18:20:20.983736
RELEASED 7 2023-07-17 18:20:20.999060
GRANTED 8 2023-07-17 18:20:20.999060
REQUEST 7 2023-07-17 18:20:20.999565
RELEASED 8 2023-07-17 18:20:20.009146
GRANTED 9 2023-07-17 18:20:20.009464
REQUEST 8 2023-07-17 18:20:20.009969
RELEASED 9 2023-07-17 18:20:20.015529
GRANTED 10 2023-07-17 18:20:20.015529
REQUEST 9 2023-07-17 18:20:20.016034
RELEASED 10 2023-07-17 18:20:20.021246
GRANTED 11 2023-07-17 18:20:20.021776
REQUEST 10 2023-07-17 18:20:20.021897
RELEASED 11 2023-07-17 18:21:21.030363
GRANTED 13 2023-07-17 18:21:21.030869
REQUEST 11 2023-07-17 18:21:21.031407
RELEASED 13 2023-07-17 18:21:21.042699
GRANTED 12 2023-07-17 18:21:21.043204
REQUEST 13 2023-07-17 18:21:21.043734
RELEASED 12 2023-07-17 18:21:21.058583
GRANTED 14 2023-07-17 18:21:21.059617
REQUEST 12 2023-07-17 18:21:21.060178
RELEASED 14 2023-07-17 18:21:21.064215
GRANTED 15 2023-07-17 18:21:21.064643
REQUEST 14 2023-07-17 18:21:21.065148
RELEASED 15 2023-07-17 18:21:21.080403
GRANTED 1 2023-07-17 18:21:21.080909
REQUEST 15 2023-07-17 18:21:21.081522
RELEASED 1 2023-07-17 18:21:21.087314
GRANTED 0 2023-07-17 18:21:21.088275
RELEASED 0 2023-07-17 18:21:21.092941
GRANTED 2 2023-07-17 18:21:21.094500
RELEASED 2 2023-07-17 18:21:21.102731
GRANTED 3 2023-07-17 18:21:21.103045
RELEASED 3 2023-07-17 18:21:21.112126
GRANTED 5 2023-07-17 18:21:21.112629
RELEASED 5 2023-07-17 18:21:21.119952
GRANTED 4 2023-07-17 18:21:21.120458
RELEASED 4 2023-07-17 18:21:21.126202
GRANTED 6 2023-07-17 18:21:21.127994
RELEASED 6 2023-07-17 18:21:21.138704
GRANTED 7 2023-07-17 18:21:21.139118
RELEASED 7 2023-07-17 18:21:21.147190
GRANTED 8 2023-07-17 18:21:21.147190
RELEASED 8 2023-07-17 18:21:21.162165
GRANTED 9 2023-07-17 18:21:21.162760
RELEASED 9 2023-07-17 18:21:21.177749
GRANTED 10 2023-07-17 18:21:21.177749
RELEASED 10 2023-07-17 18:21:21.190277
GRANTED 11 2023-07-17 18:21:21.190277
RELEASED 11 2023-07-17 18:21:21.196492

```
GRANTED 13 2023-07-17 18:21:21.196844
RELEASED 13 2023-07-17 18:21:21.211913
GRANTED 12 2023-07-17 18:21:21.211913
RELEASED 12 2023-07-17 18:21:21.215576
GRANTED 14 2023-07-17 18:21:21.217299
RELEASED 14 2023-07-17 18:21:21.223108
GRANTED 15 2023-07-17 18:21:21.224027
RELEASED 15 2023-07-17 18:21:21.232679
```

▼ **n = 32, r = 10, e k = 2 - 642,384 segundos**

▼ results.txt (320 linhas 32x10)

```
Process Id: 1 - 2023-07-17 18:23:00.989633
Process Id: 0 - 2023-07-17 18:23:03.004923
Process Id: 2 - 2023-07-17 18:23:05.012729
Process Id: 3 - 2023-07-17 18:23:07.022956
Process Id: 5 - 2023-07-17 18:23:09.059472
Process Id: 4 - 2023-07-17 18:23:11.077023
Process Id: 6 - 2023-07-17 18:23:13.087590
Process Id: 7 - 2023-07-17 18:23:15.098121
Process Id: 8 - 2023-07-17 18:23:17.115767
Process Id: 9 - 2023-07-17 18:23:19.126696
Process Id: 10 - 2023-07-17 18:23:21.140715
Process Id: 11 - 2023-07-17 18:23:23.150752
Process Id: 12 - 2023-07-17 18:23:25.162984
Process Id: 13 - 2023-07-17 18:23:27.171576
Process Id: 14 - 2023-07-17 18:23:29.180983
Process Id: 15 - 2023-07-17 18:23:31.197732
Process Id: 16 - 2023-07-17 18:23:33.213268
Process Id: 17 - 2023-07-17 18:23:35.231958
Process Id: 18 - 2023-07-17 18:23:37.242593
Process Id: 19 - 2023-07-17 18:23:39.255576
Process Id: 20 - 2023-07-17 18:23:41.268477
Process Id: 22 - 2023-07-17 18:23:43.284923
Process Id: 21 - 2023-07-17 18:23:45.293698
Process Id: 23 - 2023-07-17 18:23:47.314505
Process Id: 24 - 2023-07-17 18:23:49.325130
Process Id: 25 - 2023-07-17 18:23:51.347490
Process Id: 26 - 2023-07-17 18:23:53.374379
Process Id: 27 - 2023-07-17 18:23:55.381582
Process Id: 28 - 2023-07-17 18:23:57.404395
Process Id: 29 - 2023-07-17 18:23:59.412824
Process Id: 30 - 2023-07-17 18:24:01.421469
Process Id: 31 - 2023-07-17 18:24:03.442440
Process Id: 1 - 2023-07-17 18:24:05.452987
Process Id: 0 - 2023-07-17 18:24:07.474241
Process Id: 2 - 2023-07-17 18:24:09.493899
Process Id: 3 - 2023-07-17 18:24:11.511662
Process Id: 5 - 2023-07-17 18:24:13.521716
Process Id: 4 - 2023-07-17 18:24:15.537717
Process Id: 6 - 2023-07-17 18:24:17.551627
```

Process Id: 7 - 2023-07-17 18:24:19.574124
Process Id: 8 - 2023-07-17 18:24:21.590735
Process Id: 9 - 2023-07-17 18:24:23.612247
Process Id: 10 - 2023-07-17 18:24:25.627827
Process Id: 11 - 2023-07-17 18:24:27.645734
Process Id: 12 - 2023-07-17 18:24:29.651507
Process Id: 13 - 2023-07-17 18:24:31.673540
Process Id: 14 - 2023-07-17 18:24:33.695169
Process Id: 15 - 2023-07-17 18:24:35.712865
Process Id: 16 - 2023-07-17 18:24:37.722061
Process Id: 17 - 2023-07-17 18:24:39.741816
Process Id: 18 - 2023-07-17 18:24:41.754112
Process Id: 19 - 2023-07-17 18:24:43.762818
Process Id: 20 - 2023-07-17 18:24:45.783303
Process Id: 22 - 2023-07-17 18:24:47.799663
Process Id: 21 - 2023-07-17 18:24:49.813104
Process Id: 23 - 2023-07-17 18:24:51.820258
Process Id: 24 - 2023-07-17 18:24:53.828509
Process Id: 25 - 2023-07-17 18:24:55.839785
Process Id: 26 - 2023-07-17 18:24:57.860898
Process Id: 27 - 2023-07-17 18:24:59.875527
Process Id: 28 - 2023-07-17 18:25:01.941573
Process Id: 29 - 2023-07-17 18:25:03.965634
Process Id: 30 - 2023-07-17 18:25:05.975805
Process Id: 31 - 2023-07-17 18:25:07.986429
Process Id: 1 - 2023-07-17 18:25:10.004401
Process Id: 0 - 2023-07-17 18:25:12.014634
Process Id: 2 - 2023-07-17 18:25:14.029364
Process Id: 3 - 2023-07-17 18:25:16.055362
Process Id: 5 - 2023-07-17 18:25:18.077517
Process Id: 4 - 2023-07-17 18:25:20.096970
Process Id: 6 - 2023-07-17 18:25:22.108277
Process Id: 7 - 2023-07-17 18:25:24.114812
Process Id: 8 - 2023-07-17 18:25:26.132625
Process Id: 9 - 2023-07-17 18:25:28.156929
Process Id: 10 - 2023-07-17 18:25:30.169755
Process Id: 11 - 2023-07-17 18:25:32.191885
Process Id: 12 - 2023-07-17 18:25:34.213527
Process Id: 13 - 2023-07-17 18:25:36.235804
Process Id: 14 - 2023-07-17 18:25:38.252606
Process Id: 15 - 2023-07-17 18:25:40.276524
Process Id: 16 - 2023-07-17 18:25:42.288202
Process Id: 17 - 2023-07-17 18:25:44.303974
Process Id: 18 - 2023-07-17 18:25:46.324321
Process Id: 19 - 2023-07-17 18:25:48.343270
Process Id: 20 - 2023-07-17 18:25:50.365271
Process Id: 22 - 2023-07-17 18:25:52.380573
Process Id: 21 - 2023-07-17 18:25:54.400809
Process Id: 23 - 2023-07-17 18:25:56.422259
Process Id: 24 - 2023-07-17 18:25:58.431347
Process Id: 25 - 2023-07-17 18:26:00.442301
Process Id: 26 - 2023-07-17 18:26:02.449733
Process Id: 27 - 2023-07-17 18:26:04.464697
Process Id: 28 - 2023-07-17 18:26:06.485577
Process Id: 29 - 2023-07-17 18:26:08.494625

Process Id: 30 - 2023-07-17 18:26:10.510409
Process Id: 31 - 2023-07-17 18:26:12.517699
Process Id: 1 - 2023-07-17 18:26:14.531361
Process Id: 0 - 2023-07-17 18:26:16.541107
Process Id: 2 - 2023-07-17 18:26:18.554555
Process Id: 3 - 2023-07-17 18:26:20.566991
Process Id: 5 - 2023-07-17 18:26:22.588793
Process Id: 4 - 2023-07-17 18:26:24.604451
Process Id: 6 - 2023-07-17 18:26:26.617923
Process Id: 7 - 2023-07-17 18:26:28.626077
Process Id: 8 - 2023-07-17 18:26:30.645488
Process Id: 9 - 2023-07-17 18:26:32.663169
Process Id: 10 - 2023-07-17 18:26:34.674317
Process Id: 11 - 2023-07-17 18:26:36.684972
Process Id: 12 - 2023-07-17 18:26:38.692541
Process Id: 13 - 2023-07-17 18:26:40.705512
Process Id: 14 - 2023-07-17 18:26:42.727348
Process Id: 15 - 2023-07-17 18:26:44.747895
Process Id: 16 - 2023-07-17 18:26:46.763518
Process Id: 17 - 2023-07-17 18:26:48.773565
Process Id: 18 - 2023-07-17 18:26:50.791238
Process Id: 19 - 2023-07-17 18:26:52.800930
Process Id: 20 - 2023-07-17 18:26:54.814710
Process Id: 22 - 2023-07-17 18:26:56.841878
Process Id: 21 - 2023-07-17 18:26:58.876170
Process Id: 23 - 2023-07-17 18:27:00.884596
Process Id: 24 - 2023-07-17 18:27:02.898459
Process Id: 25 - 2023-07-17 18:27:04.909632
Process Id: 26 - 2023-07-17 18:27:06.920885
Process Id: 27 - 2023-07-17 18:27:08.931490
Process Id: 28 - 2023-07-17 18:27:10.942411
Process Id: 29 - 2023-07-17 18:27:12.965024
Process Id: 30 - 2023-07-17 18:27:14.974873
Process Id: 31 - 2023-07-17 18:27:16.998738
Process Id: 1 - 2023-07-17 18:27:19.047820
Process Id: 0 - 2023-07-17 18:27:21.067976
Process Id: 2 - 2023-07-17 18:27:23.086222
Process Id: 3 - 2023-07-17 18:27:25.100671
Process Id: 5 - 2023-07-17 18:27:27.110379
Process Id: 4 - 2023-07-17 18:27:29.121285
Process Id: 6 - 2023-07-17 18:27:31.141216
Process Id: 7 - 2023-07-17 18:27:33.151158
Process Id: 8 - 2023-07-17 18:27:35.170894
Process Id: 9 - 2023-07-17 18:27:37.193438
Process Id: 10 - 2023-07-17 18:27:39.206324
Process Id: 11 - 2023-07-17 18:27:41.226095
Process Id: 12 - 2023-07-17 18:27:43.248772
Process Id: 13 - 2023-07-17 18:27:45.268168
Process Id: 14 - 2023-07-17 18:27:47.286202
Process Id: 15 - 2023-07-17 18:27:49.301616
Process Id: 16 - 2023-07-17 18:27:51.313258
Process Id: 17 - 2023-07-17 18:27:53.320248
Process Id: 18 - 2023-07-17 18:27:55.341777
Process Id: 19 - 2023-07-17 18:27:57.350906
Process Id: 20 - 2023-07-17 18:27:59.359749

Process Id: 22 - 2023-07-17 18:28:01.378949
Process Id: 21 - 2023-07-17 18:28:03.398966
Process Id: 23 - 2023-07-17 18:28:05.402363
Process Id: 24 - 2023-07-17 18:28:07.411238
Process Id: 25 - 2023-07-17 18:28:09.426709
Process Id: 26 - 2023-07-17 18:28:11.432954
Process Id: 27 - 2023-07-17 18:28:13.442030
Process Id: 28 - 2023-07-17 18:28:15.451756
Process Id: 29 - 2023-07-17 18:28:17.460322
Process Id: 30 - 2023-07-17 18:28:19.470721
Process Id: 31 - 2023-07-17 18:28:21.480859
Process Id: 1 - 2023-07-17 18:28:23.487008
Process Id: 0 - 2023-07-17 18:28:25.499077
Process Id: 2 - 2023-07-17 18:28:27.509333
Process Id: 3 - 2023-07-17 18:28:29.519923
Process Id: 5 - 2023-07-17 18:28:31.537504
Process Id: 4 - 2023-07-17 18:28:33.542212
Process Id: 6 - 2023-07-17 18:28:35.547181
Process Id: 7 - 2023-07-17 18:28:37.548925
Process Id: 8 - 2023-07-17 18:28:39.560552
Process Id: 9 - 2023-07-17 18:28:41.563823
Process Id: 10 - 2023-07-17 18:28:43.568094
Process Id: 11 - 2023-07-17 18:28:45.577768
Process Id: 12 - 2023-07-17 18:28:47.586450
Process Id: 13 - 2023-07-17 18:28:49.592112
Process Id: 14 - 2023-07-17 18:28:51.604117
Process Id: 15 - 2023-07-17 18:28:53.610194
Process Id: 16 - 2023-07-17 18:28:55.619018
Process Id: 17 - 2023-07-17 18:28:57.629512
Process Id: 18 - 2023-07-17 18:28:59.643946
Process Id: 19 - 2023-07-17 18:29:01.655269
Process Id: 20 - 2023-07-17 18:29:03.662928
Process Id: 22 - 2023-07-17 18:29:05.671327
Process Id: 21 - 2023-07-17 18:29:07.690321
Process Id: 23 - 2023-07-17 18:29:09.698706
Process Id: 24 - 2023-07-17 18:29:11.708827
Process Id: 25 - 2023-07-17 18:29:13.714947
Process Id: 26 - 2023-07-17 18:29:15.724735
Process Id: 27 - 2023-07-17 18:29:17.728028
Process Id: 28 - 2023-07-17 18:29:19.738374
Process Id: 29 - 2023-07-17 18:29:21.754253
Process Id: 30 - 2023-07-17 18:29:23.759809
Process Id: 31 - 2023-07-17 18:29:25.776497
Process Id: 1 - 2023-07-17 18:29:27.781866
Process Id: 0 - 2023-07-17 18:29:29.798619
Process Id: 2 - 2023-07-17 18:29:31.808839
Process Id: 3 - 2023-07-17 18:29:33.822498
Process Id: 5 - 2023-07-17 18:29:35.826361
Process Id: 4 - 2023-07-17 18:29:37.842808
Process Id: 6 - 2023-07-17 18:29:39.854749
Process Id: 7 - 2023-07-17 18:29:41.867997
Process Id: 8 - 2023-07-17 18:29:43.871037
Process Id: 9 - 2023-07-17 18:29:45.881067
Process Id: 10 - 2023-07-17 18:29:47.888211
Process Id: 11 - 2023-07-17 18:29:49.900247

Process Id: 12 - 2023-07-17 18:29:51.902769
Process Id: 13 - 2023-07-17 18:29:53.911448
Process Id: 14 - 2023-07-17 18:29:55.917776
Process Id: 15 - 2023-07-17 18:29:57.926592
Process Id: 16 - 2023-07-17 18:29:59.938278
Process Id: 17 - 2023-07-17 18:30:01.948684
Process Id: 18 - 2023-07-17 18:30:03.953774
Process Id: 19 - 2023-07-17 18:30:05.960088
Process Id: 20 - 2023-07-17 18:30:07.971915
Process Id: 22 - 2023-07-17 18:30:09.987882
Process Id: 21 - 2023-07-17 18:30:12.003111
Process Id: 23 - 2023-07-17 18:30:14.010378
Process Id: 24 - 2023-07-17 18:30:16.019352
Process Id: 25 - 2023-07-17 18:30:18.022968
Process Id: 26 - 2023-07-17 18:30:20.031597
Process Id: 27 - 2023-07-17 18:30:22.038756
Process Id: 28 - 2023-07-17 18:30:24.045797
Process Id: 29 - 2023-07-17 18:30:26.058065
Process Id: 30 - 2023-07-17 18:30:28.064842
Process Id: 31 - 2023-07-17 18:30:30.076094
Process Id: 1 - 2023-07-17 18:30:32.079138
Process Id: 0 - 2023-07-17 18:30:34.089571
Process Id: 2 - 2023-07-17 18:30:36.094070
Process Id: 3 - 2023-07-17 18:30:38.111426
Process Id: 5 - 2023-07-17 18:30:40.117742
Process Id: 4 - 2023-07-17 18:30:42.134624
Process Id: 6 - 2023-07-17 18:30:44.143050
Process Id: 7 - 2023-07-17 18:30:46.146845
Process Id: 8 - 2023-07-17 18:30:48.159412
Process Id: 9 - 2023-07-17 18:30:50.163981
Process Id: 10 - 2023-07-17 18:30:52.171423
Process Id: 11 - 2023-07-17 18:30:54.180994
Process Id: 12 - 2023-07-17 18:30:56.204903
Process Id: 13 - 2023-07-17 18:30:58.218536
Process Id: 14 - 2023-07-17 18:31:00.224804
Process Id: 15 - 2023-07-17 18:31:02.241533
Process Id: 16 - 2023-07-17 18:31:04.249006
Process Id: 17 - 2023-07-17 18:31:06.253864
Process Id: 18 - 2023-07-17 18:31:08.271421
Process Id: 19 - 2023-07-17 18:31:10.282926
Process Id: 20 - 2023-07-17 18:31:12.287627
Process Id: 22 - 2023-07-17 18:31:14.290614
Process Id: 21 - 2023-07-17 18:31:16.303548
Process Id: 23 - 2023-07-17 18:31:18.307575
Process Id: 24 - 2023-07-17 18:31:20.314567
Process Id: 25 - 2023-07-17 18:31:22.316748
Process Id: 26 - 2023-07-17 18:31:24.320371
Process Id: 27 - 2023-07-17 18:31:26.333859
Process Id: 28 - 2023-07-17 18:31:28.341634
Process Id: 29 - 2023-07-17 18:31:30.348125
Process Id: 30 - 2023-07-17 18:31:32.351271
Process Id: 31 - 2023-07-17 18:31:34.364796
Process Id: 1 - 2023-07-17 18:31:36.368475
Process Id: 0 - 2023-07-17 18:31:38.408136
Process Id: 2 - 2023-07-17 18:31:40.415401

Process Id: 3 - 2023-07-17 18:31:42.428531
Process Id: 5 - 2023-07-17 18:31:44.434484
Process Id: 4 - 2023-07-17 18:31:46.442220
Process Id: 6 - 2023-07-17 18:31:48.448137
Process Id: 7 - 2023-07-17 18:31:50.463612
Process Id: 8 - 2023-07-17 18:31:52.480460
Process Id: 9 - 2023-07-17 18:31:54.486332
Process Id: 10 - 2023-07-17 18:31:56.499343
Process Id: 11 - 2023-07-17 18:31:58.504863
Process Id: 12 - 2023-07-17 18:32:00.519470
Process Id: 13 - 2023-07-17 18:32:02.530960
Process Id: 14 - 2023-07-17 18:32:04.535783
Process Id: 15 - 2023-07-17 18:32:06.539763
Process Id: 16 - 2023-07-17 18:32:08.550490
Process Id: 17 - 2023-07-17 18:32:10.561384
Process Id: 18 - 2023-07-17 18:32:12.573230
Process Id: 19 - 2023-07-17 18:32:14.583677
Process Id: 20 - 2023-07-17 18:32:16.590141
Process Id: 22 - 2023-07-17 18:32:18.593667
Process Id: 21 - 2023-07-17 18:32:20.605428
Process Id: 23 - 2023-07-17 18:32:22.621090
Process Id: 24 - 2023-07-17 18:32:24.632450
Process Id: 25 - 2023-07-17 18:32:26.653117
Process Id: 26 - 2023-07-17 18:32:28.674521
Process Id: 27 - 2023-07-17 18:32:30.684920
Process Id: 28 - 2023-07-17 18:32:32.701479
Process Id: 29 - 2023-07-17 18:32:34.720428
Process Id: 30 - 2023-07-17 18:32:36.737794
Process Id: 31 - 2023-07-17 18:32:38.759719
Process Id: 1 - 2023-07-17 18:32:40.783200
Process Id: 0 - 2023-07-17 18:32:42.803930
Process Id: 2 - 2023-07-17 18:32:44.821302
Process Id: 3 - 2023-07-17 18:32:46.841901
Process Id: 5 - 2023-07-17 18:32:48.853751
Process Id: 4 - 2023-07-17 18:32:50.867252
Process Id: 6 - 2023-07-17 18:32:52.881637
Process Id: 7 - 2023-07-17 18:32:54.901107
Process Id: 8 - 2023-07-17 18:32:56.921465
Process Id: 9 - 2023-07-17 18:32:58.941398
Process Id: 10 - 2023-07-17 18:33:00.953336
Process Id: 11 - 2023-07-17 18:33:02.975709
Process Id: 12 - 2023-07-17 18:33:04.993408
Process Id: 13 - 2023-07-17 18:33:07.017993
Process Id: 14 - 2023-07-17 18:33:09.043236
Process Id: 15 - 2023-07-17 18:33:11.056684
Process Id: 16 - 2023-07-17 18:33:13.081785
Process Id: 17 - 2023-07-17 18:33:15.113523
Process Id: 18 - 2023-07-17 18:33:17.136003
Process Id: 19 - 2023-07-17 18:33:19.151256
Process Id: 20 - 2023-07-17 18:33:21.172171
Process Id: 22 - 2023-07-17 18:33:23.197197
Process Id: 21 - 2023-07-17 18:33:25.215861
Process Id: 23 - 2023-07-17 18:33:27.245173
Process Id: 24 - 2023-07-17 18:33:29.266110
Process Id: 25 - 2023-07-17 18:33:31.276045

```
Process Id: 26 - 2023-07-17 18:33:33.287418
Process Id: 27 - 2023-07-17 18:33:35.299148
Process Id: 28 - 2023-07-17 18:33:37.308963
Process Id: 29 - 2023-07-17 18:33:39.331121
Process Id: 30 - 2023-07-17 18:33:41.353037
Process Id: 31 - 2023-07-17 18:33:43.374028
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 1 2023-07-17 18:23:23.987431
GRANTED 1 2023-07-17 18:23:23.988454
REQUEST 0 2023-07-17 18:23:23.003691
REQUEST 2 2023-07-17 18:23:23.056658
REQUEST 3 2023-07-17 18:23:23.072052
REQUEST 5 2023-07-17 18:23:23.143703
REQUEST 4 2023-07-17 18:23:23.144854
REQUEST 6 2023-07-17 18:23:23.205840
REQUEST 7 2023-07-17 18:23:23.283464
REQUEST 8 2023-07-17 18:23:23.424557
REQUEST 9 2023-07-17 18:23:23.502300
REQUEST 10 2023-07-17 18:23:23.516693
REQUEST 11 2023-07-17 18:23:23.577138
REQUEST 12 2023-07-17 18:23:23.595194
REQUEST 13 2023-07-17 18:23:23.641383
REQUEST 14 2023-07-17 18:23:23.718030
REQUEST 15 2023-07-17 18:23:23.814198
REQUEST 16 2023-07-17 18:23:23.906054
REQUEST 17 2023-07-17 18:23:23.046888
REQUEST 18 2023-07-17 18:23:23.108807
REQUEST 19 2023-07-17 18:23:23.139559
REQUEST 20 2023-07-17 18:23:23.201309
REQUEST 22 2023-07-17 18:23:23.293615
REQUEST 21 2023-07-17 18:23:23.294119
REQUEST 23 2023-07-17 18:23:23.416535
REQUEST 24 2023-07-17 18:23:23.492567
REQUEST 25 2023-07-17 18:23:23.554409
REQUEST 26 2023-07-17 18:23:23.601816
REQUEST 27 2023-07-17 18:23:23.663301
REQUEST 28 2023-07-17 18:23:23.677430
REQUEST 29 2023-07-17 18:23:23.708220
REQUEST 30 2023-07-17 18:23:23.740155
REQUEST 31 2023-07-17 18:23:23.771375
RELEASED 1 2023-07-17 18:23:23.003885
GRANTED 0 2023-07-17 18:23:23.003885
REQUEST 1 2023-07-17 18:23:23.004392
RELEASED 0 2023-07-17 18:23:23.011703
GRANTED 2 2023-07-17 18:23:23.011703
REQUEST 0 2023-07-17 18:23:23.012208
RELEASED 2 2023-07-17 18:23:23.021507
GRANTED 3 2023-07-17 18:23:23.021902
REQUEST 2 2023-07-17 18:23:23.022407
```

RELEASED 3 2023-07-17 18:23:23.057426
GRANTED 5 2023-07-17 18:23:23.057426
REQUEST 3 2023-07-17 18:23:23.059472
RELEASED 5 2023-07-17 18:23:23.075545
GRANTED 4 2023-07-17 18:23:23.075985
REQUEST 5 2023-07-17 18:23:23.076490
RELEASED 4 2023-07-17 18:23:23.086556
GRANTED 6 2023-07-17 18:23:23.087063
REQUEST 4 2023-07-17 18:23:23.087063
RELEASED 6 2023-07-17 18:23:23.096562
GRANTED 7 2023-07-17 18:23:23.097068
REQUEST 6 2023-07-17 18:23:23.097606
RELEASED 7 2023-07-17 18:23:23.114736
GRANTED 8 2023-07-17 18:23:23.114736
REQUEST 7 2023-07-17 18:23:23.115241
RELEASED 8 2023-07-17 18:23:23.125297
GRANTED 9 2023-07-17 18:23:23.125667
REQUEST 8 2023-07-17 18:23:23.126171
RELEASED 9 2023-07-17 18:23:23.138155
GRANTED 10 2023-07-17 18:23:23.139562
REQUEST 9 2023-07-17 18:23:23.140084
RELEASED 10 2023-07-17 18:23:23.149241
GRANTED 11 2023-07-17 18:23:23.149712
REQUEST 10 2023-07-17 18:23:23.150217
RELEASED 11 2023-07-17 18:23:23.159112
GRANTED 12 2023-07-17 18:23:23.160379
REQUEST 11 2023-07-17 18:23:23.162470
RELEASED 12 2023-07-17 18:23:23.170514
GRANTED 13 2023-07-17 18:23:23.170514
REQUEST 12 2023-07-17 18:23:23.171021
RELEASED 13 2023-07-17 18:23:23.179336
GRANTED 14 2023-07-17 18:23:23.179897
REQUEST 13 2023-07-17 18:23:23.180435
RELEASED 14 2023-07-17 18:23:23.196175
GRANTED 15 2023-07-17 18:23:23.196682
REQUEST 14 2023-07-17 18:23:23.197208
RELEASED 15 2023-07-17 18:23:23.212009
GRANTED 16 2023-07-17 18:23:23.212514
REQUEST 15 2023-07-17 18:23:23.212514
RELEASED 16 2023-07-17 18:23:23.229045
GRANTED 17 2023-07-17 18:23:23.230880
REQUEST 16 2023-07-17 18:23:23.231425
RELEASED 17 2023-07-17 18:23:23.241563
GRANTED 18 2023-07-17 18:23:23.241563
REQUEST 17 2023-07-17 18:23:23.242067
RELEASED 18 2023-07-17 18:23:23.254547
GRANTED 19 2023-07-17 18:23:23.254547
REQUEST 18 2023-07-17 18:23:23.255052
RELEASED 19 2023-07-17 18:23:23.267352
GRANTED 20 2023-07-17 18:23:23.267352
REQUEST 19 2023-07-17 18:23:23.267908
RELEASED 20 2023-07-17 18:23:23.283419
GRANTED 22 2023-07-17 18:23:23.284398
REQUEST 20 2023-07-17 18:23:23.284398
RELEASED 22 2023-07-17 18:23:23.292671

GRANTED 21 2023-07-17 18:23:23.292671
REQUEST 22 2023-07-17 18:23:23.293178
RELEASED 21 2023-07-17 18:23:23.312871
GRANTED 23 2023-07-17 18:23:23.313423
REQUEST 21 2023-07-17 18:23:23.313969
RELEASED 23 2023-07-17 18:23:23.324100
GRANTED 24 2023-07-17 18:23:23.324100
REQUEST 23 2023-07-17 18:23:23.324606
RELEASED 24 2023-07-17 18:23:23.346985
GRANTED 25 2023-07-17 18:23:23.346985
REQUEST 24 2023-07-17 18:23:23.347490
RELEASED 25 2023-07-17 18:23:23.372682
GRANTED 26 2023-07-17 18:23:23.373187
REQUEST 25 2023-07-17 18:23:23.373871
RELEASED 26 2023-07-17 18:23:23.380123
GRANTED 27 2023-07-17 18:23:23.380548
REQUEST 26 2023-07-17 18:23:23.381055
RELEASED 27 2023-07-17 18:23:23.402219
GRANTED 28 2023-07-17 18:23:23.402727
REQUEST 27 2023-07-17 18:23:23.403348
RELEASED 28 2023-07-17 18:23:23.411701
GRANTED 29 2023-07-17 18:23:23.412317
REQUEST 28 2023-07-17 18:23:23.412317
RELEASED 29 2023-07-17 18:24:24.420442
GRANTED 30 2023-07-17 18:24:24.420442
REQUEST 29 2023-07-17 18:24:24.420946
RELEASED 30 2023-07-17 18:24:24.440948
GRANTED 31 2023-07-17 18:24:24.441328
REQUEST 30 2023-07-17 18:24:24.441931
RELEASED 31 2023-07-17 18:24:24.450182
GRANTED 1 2023-07-17 18:24:24.451050
REQUEST 31 2023-07-17 18:24:24.452059
RELEASED 1 2023-07-17 18:24:24.472863
GRANTED 0 2023-07-17 18:24:24.473206
REQUEST 1 2023-07-17 18:24:24.473712
RELEASED 0 2023-07-17 18:24:24.492835
GRANTED 2 2023-07-17 18:24:24.492835
REQUEST 0 2023-07-17 18:24:24.493393
RELEASED 2 2023-07-17 18:24:24.510582
GRANTED 3 2023-07-17 18:24:24.511088
REQUEST 2 2023-07-17 18:24:24.511088
RELEASED 3 2023-07-17 18:24:24.520568
GRANTED 5 2023-07-17 18:24:24.521073
REQUEST 3 2023-07-17 18:24:24.521073
RELEASED 5 2023-07-17 18:24:24.536664
GRANTED 4 2023-07-17 18:24:24.537170
REQUEST 5 2023-07-17 18:24:24.537717
RELEASED 4 2023-07-17 18:24:24.550600
GRANTED 6 2023-07-17 18:24:24.550600
REQUEST 4 2023-07-17 18:24:24.551104
RELEASED 6 2023-07-17 18:24:24.572542
GRANTED 7 2023-07-17 18:24:24.573051
REQUEST 6 2023-07-17 18:24:24.573590
RELEASED 7 2023-07-17 18:24:24.588982
GRANTED 8 2023-07-17 18:24:24.590146

REQUEST 7 2023-07-17 18:24:24.590146
RELEASED 8 2023-07-17 18:24:24.610552
GRANTED 9 2023-07-17 18:24:24.611058
REQUEST 8 2023-07-17 18:24:24.612140
RELEASED 9 2023-07-17 18:24:24.626316
GRANTED 10 2023-07-17 18:24:24.626796
REQUEST 9 2023-07-17 18:24:24.627300
RELEASED 10 2023-07-17 18:24:24.644699
GRANTED 11 2023-07-17 18:24:24.645203
REQUEST 10 2023-07-17 18:24:24.645203
RELEASED 11 2023-07-17 18:24:24.650351
GRANTED 12 2023-07-17 18:24:24.650351
REQUEST 11 2023-07-17 18:24:24.650913
RELEASED 12 2023-07-17 18:24:24.672514
GRANTED 13 2023-07-17 18:24:24.673020
REQUEST 12 2023-07-17 18:24:24.673540
RELEASED 13 2023-07-17 18:24:24.694067
GRANTED 14 2023-07-17 18:24:24.694573
REQUEST 13 2023-07-17 18:24:24.695169
RELEASED 14 2023-07-17 18:24:24.711402
GRANTED 15 2023-07-17 18:24:24.712343
REQUEST 14 2023-07-17 18:24:24.712343
RELEASED 15 2023-07-17 18:24:24.720945
GRANTED 16 2023-07-17 18:24:24.721557
REQUEST 15 2023-07-17 18:24:24.722061
RELEASED 16 2023-07-17 18:24:24.740783
GRANTED 17 2023-07-17 18:24:24.740783
REQUEST 16 2023-07-17 18:24:24.741288
RELEASED 17 2023-07-17 18:24:24.753058
GRANTED 18 2023-07-17 18:24:24.753582
REQUEST 17 2023-07-17 18:24:24.754112
RELEASED 18 2023-07-17 18:24:24.761780
GRANTED 19 2023-07-17 18:24:24.762288
REQUEST 18 2023-07-17 18:24:24.762818
RELEASED 19 2023-07-17 18:24:24.782276
GRANTED 20 2023-07-17 18:24:24.782780
REQUEST 19 2023-07-17 18:24:24.782780
RELEASED 20 2023-07-17 18:24:24.798521
GRANTED 22 2023-07-17 18:24:24.799026
REQUEST 20 2023-07-17 18:24:24.799561
RELEASED 22 2023-07-17 18:24:24.811585
GRANTED 21 2023-07-17 18:24:24.812061
REQUEST 22 2023-07-17 18:24:24.812567
RELEASED 21 2023-07-17 18:24:24.818744
GRANTED 23 2023-07-17 18:24:24.819248
REQUEST 21 2023-07-17 18:24:24.820258
RELEASED 23 2023-07-17 18:24:24.826930
GRANTED 24 2023-07-17 18:24:24.827436
REQUEST 23 2023-07-17 18:24:24.827972
RELEASED 24 2023-07-17 18:24:24.836491
GRANTED 25 2023-07-17 18:24:24.837494
REQUEST 24 2023-07-17 18:24:24.838774
RELEASED 25 2023-07-17 18:24:24.859860
GRANTED 26 2023-07-17 18:24:24.860363
REQUEST 25 2023-07-17 18:24:24.860898

RELEASED 26 2023-07-17 18:24:24.874059
GRANTED 27 2023-07-17 18:24:24.874427
REQUEST 26 2023-07-17 18:24:24.874932
RELEASED 27 2023-07-17 18:25:25.916988
GRANTED 28 2023-07-17 18:25:25.920532
REQUEST 27 2023-07-17 18:25:25.945063
RELEASED 28 2023-07-17 18:25:25.963010
GRANTED 29 2023-07-17 18:25:25.964364
REQUEST 28 2023-07-17 18:25:25.965011
RELEASED 29 2023-07-17 18:25:25.974779
GRANTED 30 2023-07-17 18:25:25.974779
REQUEST 29 2023-07-17 18:25:25.975284
RELEASED 30 2023-07-17 18:25:25.984978
GRANTED 31 2023-07-17 18:25:25.985403
REQUEST 30 2023-07-17 18:25:25.985907
RELEASED 31 2023-07-17 18:25:25.002700
GRANTED 1 2023-07-17 18:25:25.003205
REQUEST 31 2023-07-17 18:25:25.003731
RELEASED 1 2023-07-17 18:25:25.012933
GRANTED 0 2023-07-17 18:25:25.013437
REQUEST 1 2023-07-17 18:25:25.013957
RELEASED 0 2023-07-17 18:25:25.025620
GRANTED 2 2023-07-17 18:25:25.026987
REQUEST 0 2023-07-17 18:25:25.028200
RELEASED 2 2023-07-17 18:25:25.053326
GRANTED 3 2023-07-17 18:25:25.054636
REQUEST 2 2023-07-17 18:25:25.055362
RELEASED 3 2023-07-17 18:25:25.076481
GRANTED 5 2023-07-17 18:25:25.076987
REQUEST 3 2023-07-17 18:25:25.076987
RELEASED 5 2023-07-17 18:25:25.095939
GRANTED 4 2023-07-17 18:25:25.096447
REQUEST 5 2023-07-17 18:25:25.096970
RELEASED 4 2023-07-17 18:25:25.106720
GRANTED 6 2023-07-17 18:25:25.107226
REQUEST 4 2023-07-17 18:25:25.107743
RELEASED 6 2023-07-17 18:25:25.113740
GRANTED 7 2023-07-17 18:25:25.114245
REQUEST 6 2023-07-17 18:25:25.114308
RELEASED 7 2023-07-17 18:25:25.130122
GRANTED 8 2023-07-17 18:25:25.131069
REQUEST 7 2023-07-17 18:25:25.132084
RELEASED 8 2023-07-17 18:25:25.155880
GRANTED 9 2023-07-17 18:25:25.155880
REQUEST 8 2023-07-17 18:25:25.156385
RELEASED 9 2023-07-17 18:25:25.168103
GRANTED 10 2023-07-17 18:25:25.168609
REQUEST 9 2023-07-17 18:25:25.169215
RELEASED 10 2023-07-17 18:25:25.189705
GRANTED 11 2023-07-17 18:25:25.190214
REQUEST 10 2023-07-17 18:25:25.191332
RELEASED 11 2023-07-17 18:25:25.212499
GRANTED 12 2023-07-17 18:25:25.213003
REQUEST 11 2023-07-17 18:25:25.213003
RELEASED 12 2023-07-17 18:25:25.234775

GRANTED 13 2023-07-17 18:25:25.234775
REQUEST 12 2023-07-17 18:25:25.235280
RELEASED 13 2023-07-17 18:25:25.251085
GRANTED 14 2023-07-17 18:25:25.251513
REQUEST 13 2023-07-17 18:25:25.252100
RELEASED 14 2023-07-17 18:25:25.275475
GRANTED 15 2023-07-17 18:25:25.275475
REQUEST 14 2023-07-17 18:25:25.275980
RELEASED 15 2023-07-17 18:25:25.286129
GRANTED 16 2023-07-17 18:25:25.287138
REQUEST 15 2023-07-17 18:25:25.287672
RELEASED 16 2023-07-17 18:25:25.301970
GRANTED 17 2023-07-17 18:25:25.302358
REQUEST 16 2023-07-17 18:25:25.302864
RELEASED 17 2023-07-17 18:25:25.322770
GRANTED 18 2023-07-17 18:25:25.323697
REQUEST 17 2023-07-17 18:25:25.324218
RELEASED 18 2023-07-17 18:25:25.342246
GRANTED 19 2023-07-17 18:25:25.342246
REQUEST 18 2023-07-17 18:25:25.342752
RELEASED 19 2023-07-17 18:25:25.363698
GRANTED 20 2023-07-17 18:25:25.364204
REQUEST 19 2023-07-17 18:25:25.364732
RELEASED 20 2023-07-17 18:25:25.379486
GRANTED 22 2023-07-17 18:25:25.379990
REQUEST 20 2023-07-17 18:25:25.380573
RELEASED 22 2023-07-17 18:25:25.399325
GRANTED 21 2023-07-17 18:25:25.399787
REQUEST 22 2023-07-17 18:25:25.400293
RELEASED 21 2023-07-17 18:25:25.421203
GRANTED 23 2023-07-17 18:25:25.421203
REQUEST 21 2023-07-17 18:25:25.421708
RELEASED 23 2023-07-17 18:25:25.429756
GRANTED 24 2023-07-17 18:25:25.430277
REQUEST 23 2023-07-17 18:25:25.430807
RELEASED 24 2023-07-17 18:26:26.439690
GRANTED 25 2023-07-17 18:26:26.441219
REQUEST 24 2023-07-17 18:26:26.442301
RELEASED 25 2023-07-17 18:26:26.448137
GRANTED 26 2023-07-17 18:26:26.449126
REQUEST 25 2023-07-17 18:26:26.449225
RELEASED 26 2023-07-17 18:26:26.463194
GRANTED 27 2023-07-17 18:26:26.463666
REQUEST 26 2023-07-17 18:26:26.464171
RELEASED 27 2023-07-17 18:26:26.484000
GRANTED 28 2023-07-17 18:26:26.484543
REQUEST 27 2023-07-17 18:26:26.485047
RELEASED 28 2023-07-17 18:26:26.493536
GRANTED 29 2023-07-17 18:26:26.493536
REQUEST 28 2023-07-17 18:26:26.494119
RELEASED 29 2023-07-17 18:26:26.509377
GRANTED 30 2023-07-17 18:26:26.509883
REQUEST 29 2023-07-17 18:26:26.510409
RELEASED 30 2023-07-17 18:26:26.516677
GRANTED 31 2023-07-17 18:26:26.516677

REQUEST 30 2023-07-17 18:26:26.517183
RELEASED 31 2023-07-17 18:26:26.528882
GRANTED 1 2023-07-17 18:26:26.530296
REQUEST 31 2023-07-17 18:26:26.530828
RELEASED 1 2023-07-17 18:26:26.539452
GRANTED 0 2023-07-17 18:26:26.540038
REQUEST 1 2023-07-17 18:26:26.540584
RELEASED 0 2023-07-17 18:26:26.553402
GRANTED 2 2023-07-17 18:26:26.553971
REQUEST 0 2023-07-17 18:26:26.554477
RELEASED 2 2023-07-17 18:26:26.565964
GRANTED 3 2023-07-17 18:26:26.565964
REQUEST 2 2023-07-17 18:26:26.566468
RELEASED 3 2023-07-17 18:26:26.586619
GRANTED 5 2023-07-17 18:26:26.587727
REQUEST 3 2023-07-17 18:26:26.588266
RELEASED 5 2023-07-17 18:26:26.603427
GRANTED 4 2023-07-17 18:26:26.603931
REQUEST 5 2023-07-17 18:26:26.603931
RELEASED 4 2023-07-17 18:26:26.616546
GRANTED 6 2023-07-17 18:26:26.616899
REQUEST 4 2023-07-17 18:26:26.617406
RELEASED 6 2023-07-17 18:26:26.624588
GRANTED 7 2023-07-17 18:26:26.625543
REQUEST 6 2023-07-17 18:26:26.625543
RELEASED 7 2023-07-17 18:26:26.644452
GRANTED 8 2023-07-17 18:26:26.644452
REQUEST 7 2023-07-17 18:26:26.644956
RELEASED 8 2023-07-17 18:26:26.661598
GRANTED 9 2023-07-17 18:26:26.662102
REQUEST 8 2023-07-17 18:26:26.662625
RELEASED 9 2023-07-17 18:26:26.672117
GRANTED 10 2023-07-17 18:26:26.672624
REQUEST 9 2023-07-17 18:26:26.673762
RELEASED 10 2023-07-17 18:26:26.683575
GRANTED 11 2023-07-17 18:26:26.683912
REQUEST 10 2023-07-17 18:26:26.684418
RELEASED 11 2023-07-17 18:26:26.690397
GRANTED 12 2023-07-17 18:26:26.690910
REQUEST 11 2023-07-17 18:26:26.692000
RELEASED 12 2023-07-17 18:26:26.703395
GRANTED 13 2023-07-17 18:26:26.704247
REQUEST 12 2023-07-17 18:26:26.704878
RELEASED 13 2023-07-17 18:26:26.725721
GRANTED 14 2023-07-17 18:26:26.726315
REQUEST 13 2023-07-17 18:26:26.726820
RELEASED 14 2023-07-17 18:26:26.746535
GRANTED 15 2023-07-17 18:26:26.746876
REQUEST 14 2023-07-17 18:26:26.747381
RELEASED 15 2023-07-17 18:26:26.761969
GRANTED 16 2023-07-17 18:26:26.762476
REQUEST 15 2023-07-17 18:26:26.762994
RELEASED 16 2023-07-17 18:26:26.771398
GRANTED 17 2023-07-17 18:26:26.771905
REQUEST 16 2023-07-17 18:26:26.772487

RELEASED 17 2023-07-17 18:26:26.789776
GRANTED 18 2023-07-17 18:26:26.790732
REQUEST 17 2023-07-17 18:26:26.790732
RELEASED 18 2023-07-17 18:26:26.799300
GRANTED 19 2023-07-17 18:26:26.799809
REQUEST 18 2023-07-17 18:26:26.800342
RELEASED 19 2023-07-17 18:26:26.813205
GRANTED 20 2023-07-17 18:26:26.813668
REQUEST 19 2023-07-17 18:26:26.814182
RELEASED 20 2023-07-17 18:26:26.836516
GRANTED 22 2023-07-17 18:26:26.838417
REQUEST 20 2023-07-17 18:26:26.840123
RELEASED 22 2023-07-17 18:26:26.875127
GRANTED 21 2023-07-17 18:26:26.875127
REQUEST 22 2023-07-17 18:26:26.875632
RELEASED 21 2023-07-17 18:27:27.883067
GRANTED 23 2023-07-17 18:27:27.883569
REQUEST 21 2023-07-17 18:27:27.884074
RELEASED 23 2023-07-17 18:27:27.896359
GRANTED 24 2023-07-17 18:27:27.896864
REQUEST 23 2023-07-17 18:27:27.897922
RELEASED 24 2023-07-17 18:27:27.908077
GRANTED 25 2023-07-17 18:27:27.908585
REQUEST 24 2023-07-17 18:27:27.909109
RELEASED 25 2023-07-17 18:27:27.919859
GRANTED 26 2023-07-17 18:27:27.920362
REQUEST 25 2023-07-17 18:27:27.920362
RELEASED 26 2023-07-17 18:27:27.929923
GRANTED 27 2023-07-17 18:27:27.930433
REQUEST 26 2023-07-17 18:27:27.930963
RELEASED 27 2023-07-17 18:27:27.941237
GRANTED 28 2023-07-17 18:27:27.941237
REQUEST 27 2023-07-17 18:27:27.941902
RELEASED 28 2023-07-17 18:27:27.963438
GRANTED 29 2023-07-17 18:27:27.963945
REQUEST 28 2023-07-17 18:27:27.964484
RELEASED 29 2023-07-17 18:27:27.973844
GRANTED 30 2023-07-17 18:27:27.973844
REQUEST 29 2023-07-17 18:27:27.974349
RELEASED 30 2023-07-17 18:27:27.996600
GRANTED 31 2023-07-17 18:27:27.997627
REQUEST 30 2023-07-17 18:27:27.998155
RELEASED 31 2023-07-17 18:27:27.036328
GRANTED 1 2023-07-17 18:27:27.046798
REQUEST 31 2023-07-17 18:27:27.047304
RELEASED 1 2023-07-17 18:27:27.066475
GRANTED 0 2023-07-17 18:27:27.066475
REQUEST 1 2023-07-17 18:27:27.067468
RELEASED 0 2023-07-17 18:27:27.084832
GRANTED 2 2023-07-17 18:27:27.085186
REQUEST 0 2023-07-17 18:27:27.085693
RELEASED 2 2023-07-17 18:27:27.099094
GRANTED 3 2023-07-17 18:27:27.099602
REQUEST 2 2023-07-17 18:27:27.100140
RELEASED 3 2023-07-17 18:27:27.108756

GRANTED 5 2023-07-17 18:27:27.109695
REQUEST 3 2023-07-17 18:27:27.109780
RELEASED 5 2023-07-17 18:27:27.119663
GRANTED 4 2023-07-17 18:27:27.120188
REQUEST 5 2023-07-17 18:27:27.120708
RELEASED 4 2023-07-17 18:27:27.138968
GRANTED 6 2023-07-17 18:27:27.140136
REQUEST 4 2023-07-17 18:27:27.140684
RELEASED 6 2023-07-17 18:27:27.149752
GRANTED 7 2023-07-17 18:27:27.150595
REQUEST 6 2023-07-17 18:27:27.150652
RELEASED 7 2023-07-17 18:27:27.169500
GRANTED 8 2023-07-17 18:27:27.170376
REQUEST 7 2023-07-17 18:27:27.170376
RELEASED 8 2023-07-17 18:27:27.192289
GRANTED 9 2023-07-17 18:27:27.192796
REQUEST 8 2023-07-17 18:27:27.192875
RELEASED 9 2023-07-17 18:27:27.204544
GRANTED 10 2023-07-17 18:27:27.205082
REQUEST 9 2023-07-17 18:27:27.205818
RELEASED 10 2023-07-17 18:27:27.224661
GRANTED 11 2023-07-17 18:27:27.225068
REQUEST 10 2023-07-17 18:27:27.225574
RELEASED 11 2023-07-17 18:27:27.246760
GRANTED 12 2023-07-17 18:27:27.247752
REQUEST 11 2023-07-17 18:27:27.248256
RELEASED 12 2023-07-17 18:27:27.266666
GRANTED 13 2023-07-17 18:27:27.266666
REQUEST 12 2023-07-17 18:27:27.267657
RELEASED 13 2023-07-17 18:27:27.284690
GRANTED 14 2023-07-17 18:27:27.285142
REQUEST 13 2023-07-17 18:27:27.285647
RELEASED 14 2023-07-17 18:27:27.300435
GRANTED 15 2023-07-17 18:27:27.301110
REQUEST 14 2023-07-17 18:27:27.301616
RELEASED 15 2023-07-17 18:27:27.311282
GRANTED 16 2023-07-17 18:27:27.312141
REQUEST 15 2023-07-17 18:27:27.312674
RELEASED 16 2023-07-17 18:27:27.319206
GRANTED 17 2023-07-17 18:27:27.319713
REQUEST 16 2023-07-17 18:27:27.320248
RELEASED 17 2023-07-17 18:27:27.340179
GRANTED 18 2023-07-17 18:27:27.340686
REQUEST 17 2023-07-17 18:27:27.341263
RELEASED 18 2023-07-17 18:27:27.348503
GRANTED 19 2023-07-17 18:27:27.349007
REQUEST 18 2023-07-17 18:27:27.349968
RELEASED 19 2023-07-17 18:27:27.358722
GRANTED 20 2023-07-17 18:27:27.358722
REQUEST 19 2023-07-17 18:27:27.359227
RELEASED 20 2023-07-17 18:28:28.377360
GRANTED 22 2023-07-17 18:28:28.377872
REQUEST 20 2023-07-17 18:28:28.378407
RELEASED 22 2023-07-17 18:28:28.397839
GRANTED 21 2023-07-17 18:28:28.397839

REQUEST 22 2023-07-17 18:28:28.398966
RELEASED 21 2023-07-17 18:28:28.400834
GRANTED 23 2023-07-17 18:28:28.401324
REQUEST 21 2023-07-17 18:28:28.401831
RELEASED 23 2023-07-17 18:28:28.410211
GRANTED 24 2023-07-17 18:28:28.410211
REQUEST 23 2023-07-17 18:28:28.410715
RELEASED 24 2023-07-17 18:28:28.425244
GRANTED 25 2023-07-17 18:28:28.425679
REQUEST 24 2023-07-17 18:28:28.426183
RELEASED 25 2023-07-17 18:28:28.431389
GRANTED 26 2023-07-17 18:28:28.431896
REQUEST 25 2023-07-17 18:28:28.432422
RELEASED 26 2023-07-17 18:28:28.440996
GRANTED 27 2023-07-17 18:28:28.440996
REQUEST 26 2023-07-17 18:28:28.441501
RELEASED 27 2023-07-17 18:28:28.450349
GRANTED 28 2023-07-17 18:28:28.450724
REQUEST 27 2023-07-17 18:28:28.451230
RELEASED 28 2023-07-17 18:28:28.459266
GRANTED 29 2023-07-17 18:28:28.459266
REQUEST 28 2023-07-17 18:28:28.459771
RELEASED 29 2023-07-17 18:28:28.469341
GRANTED 30 2023-07-17 18:28:28.469678
REQUEST 29 2023-07-17 18:28:28.470182
RELEASED 30 2023-07-17 18:28:28.479830
GRANTED 31 2023-07-17 18:28:28.479830
REQUEST 30 2023-07-17 18:28:28.480336
RELEASED 31 2023-07-17 18:28:28.485921
GRANTED 1 2023-07-17 18:28:28.486463
REQUEST 31 2023-07-17 18:28:28.487008
RELEASED 1 2023-07-17 18:28:28.497405
GRANTED 0 2023-07-17 18:28:28.498436
REQUEST 1 2023-07-17 18:28:28.498953
RELEASED 0 2023-07-17 18:28:28.507705
GRANTED 2 2023-07-17 18:28:28.507705
REQUEST 0 2023-07-17 18:28:28.508271
RELEASED 2 2023-07-17 18:28:28.518895
GRANTED 3 2023-07-17 18:28:28.519400
REQUEST 2 2023-07-17 18:28:28.519400
RELEASED 3 2023-07-17 18:28:28.535926
GRANTED 5 2023-07-17 18:28:28.536431
REQUEST 3 2023-07-17 18:28:28.536978
RELEASED 5 2023-07-17 18:28:28.541179
GRANTED 4 2023-07-17 18:28:28.541179
REQUEST 5 2023-07-17 18:28:28.541683
RELEASED 4 2023-07-17 18:28:28.545617
GRANTED 6 2023-07-17 18:28:28.546152
REQUEST 4 2023-07-17 18:28:28.546657
RELEASED 6 2023-07-17 18:28:28.547672
GRANTED 7 2023-07-17 18:28:28.547672
REQUEST 6 2023-07-17 18:28:28.548293
RELEASED 7 2023-07-17 18:28:28.558409
GRANTED 8 2023-07-17 18:28:28.559450
REQUEST 7 2023-07-17 18:28:28.560552

RELEASED 8 2023-07-17 18:28:28.561091
GRANTED 9 2023-07-17 18:28:28.563293
REQUEST 8 2023-07-17 18:28:28.563823
RELEASED 9 2023-07-17 18:28:28.566588
GRANTED 10 2023-07-17 18:28:28.566588
REQUEST 9 2023-07-17 18:28:28.567589
RELEASED 10 2023-07-17 18:28:28.574015
GRANTED 11 2023-07-17 18:28:28.575561
REQUEST 10 2023-07-17 18:28:28.576729
RELEASED 11 2023-07-17 18:28:28.584963
GRANTED 12 2023-07-17 18:28:28.585915
REQUEST 11 2023-07-17 18:28:28.586450
RELEASED 12 2023-07-17 18:28:28.590653
GRANTED 13 2023-07-17 18:28:28.591074
REQUEST 12 2023-07-17 18:28:28.591580
RELEASED 13 2023-07-17 18:28:28.603085
GRANTED 14 2023-07-17 18:28:28.603085
REQUEST 13 2023-07-17 18:28:28.603591
RELEASED 14 2023-07-17 18:28:28.609109
GRANTED 15 2023-07-17 18:28:28.609613
REQUEST 14 2023-07-17 18:28:28.609613
RELEASED 15 2023-07-17 18:28:28.617592
GRANTED 16 2023-07-17 18:28:28.617965
REQUEST 15 2023-07-17 18:28:28.618495
RELEASED 16 2023-07-17 18:28:28.625890
GRANTED 17 2023-07-17 18:28:28.627514
REQUEST 16 2023-07-17 18:28:28.628179
RELEASED 17 2023-07-17 18:28:28.642417
GRANTED 18 2023-07-17 18:28:28.642906
REQUEST 17 2023-07-17 18:28:28.643411
RELEASED 18 2023-07-17 18:29:29.650943
GRANTED 19 2023-07-17 18:29:29.652267
REQUEST 18 2023-07-17 18:29:29.653462
RELEASED 19 2023-07-17 18:29:29.660693
GRANTED 20 2023-07-17 18:29:29.661149
REQUEST 19 2023-07-17 18:29:29.662319
RELEASED 20 2023-07-17 18:29:29.665553
GRANTED 22 2023-07-17 18:29:29.667494
REQUEST 20 2023-07-17 18:29:29.670567
RELEASED 22 2023-07-17 18:29:29.687971
GRANTED 21 2023-07-17 18:29:29.689075
REQUEST 22 2023-07-17 18:29:29.689751
RELEASED 21 2023-07-17 18:29:29.696481
GRANTED 23 2023-07-17 18:29:29.697472
REQUEST 21 2023-07-17 18:29:29.698579
RELEASED 23 2023-07-17 18:29:29.707784
GRANTED 24 2023-07-17 18:29:29.707784
REQUEST 23 2023-07-17 18:29:29.708288
RELEASED 24 2023-07-17 18:29:29.713470
GRANTED 25 2023-07-17 18:29:29.713886
REQUEST 24 2023-07-17 18:29:29.714442
RELEASED 25 2023-07-17 18:29:29.719367
GRANTED 26 2023-07-17 18:29:29.720775
REQUEST 25 2023-07-17 18:29:29.722027
RELEASED 26 2023-07-17 18:29:29.726556

GRANTED 27 2023-07-17 18:29:29.726556
REQUEST 26 2023-07-17 18:29:29.727490
RELEASED 27 2023-07-17 18:29:29.734035
GRANTED 28 2023-07-17 18:29:29.735929
REQUEST 27 2023-07-17 18:29:29.737568
RELEASED 28 2023-07-17 18:29:29.752664
GRANTED 29 2023-07-17 18:29:29.753163
REQUEST 28 2023-07-17 18:29:29.753669
RELEASED 29 2023-07-17 18:29:29.758772
GRANTED 30 2023-07-17 18:29:29.758772
REQUEST 29 2023-07-17 18:29:29.759278
RELEASED 30 2023-07-17 18:29:29.774860
GRANTED 31 2023-07-17 18:29:29.775395
REQUEST 30 2023-07-17 18:29:29.775899
RELEASED 31 2023-07-17 18:29:29.780823
GRANTED 1 2023-07-17 18:29:29.780823
REQUEST 31 2023-07-17 18:29:29.781331
RELEASED 1 2023-07-17 18:29:29.795172
GRANTED 0 2023-07-17 18:29:29.796447
REQUEST 1 2023-07-17 18:29:29.796974
RELEASED 0 2023-07-17 18:29:29.807248
GRANTED 2 2023-07-17 18:29:29.807798
REQUEST 0 2023-07-17 18:29:29.808303
RELEASED 2 2023-07-17 18:29:29.818514
GRANTED 3 2023-07-17 18:29:29.820066
REQUEST 2 2023-07-17 18:29:29.821321
RELEASED 3 2023-07-17 18:29:29.824831
GRANTED 5 2023-07-17 18:29:29.825321
REQUEST 3 2023-07-17 18:29:29.825829
RELEASED 5 2023-07-17 18:29:29.841776
GRANTED 4 2023-07-17 18:29:29.841776
REQUEST 5 2023-07-17 18:29:29.842281
RELEASED 4 2023-07-17 18:29:29.853203
GRANTED 6 2023-07-17 18:29:29.854222
REQUEST 4 2023-07-17 18:29:29.854749
RELEASED 6 2023-07-17 18:29:29.861850
GRANTED 7 2023-07-17 18:29:29.863056
REQUEST 6 2023-07-17 18:29:29.864546
RELEASED 7 2023-07-17 18:29:29.869633
GRANTED 8 2023-07-17 18:29:29.870014
REQUEST 7 2023-07-17 18:29:29.870518
RELEASED 8 2023-07-17 18:29:29.880032
GRANTED 9 2023-07-17 18:29:29.880032
REQUEST 8 2023-07-17 18:29:29.880537
RELEASED 9 2023-07-17 18:29:29.885794
GRANTED 10 2023-07-17 18:29:29.887027
REQUEST 9 2023-07-17 18:29:29.887552
RELEASED 10 2023-07-17 18:29:29.894946
GRANTED 11 2023-07-17 18:29:29.896280
REQUEST 10 2023-07-17 18:29:29.899183
RELEASED 11 2023-07-17 18:29:29.901658
GRANTED 12 2023-07-17 18:29:29.902162
REQUEST 11 2023-07-17 18:29:29.902162
RELEASED 12 2023-07-17 18:29:29.909971
GRANTED 13 2023-07-17 18:29:29.910388

REQUEST 12 2023-07-17 18:29:29.910892
RELEASED 13 2023-07-17 18:29:29.916373
GRANTED 14 2023-07-17 18:29:29.916373
REQUEST 13 2023-07-17 18:29:29.917248
RELEASED 14 2023-07-17 18:29:29.925150
GRANTED 15 2023-07-17 18:29:29.925552
REQUEST 14 2023-07-17 18:29:29.926057
RELEASED 15 2023-07-17 18:29:29.936710
GRANTED 16 2023-07-17 18:29:29.937222
REQUEST 15 2023-07-17 18:29:29.938278
RELEASED 16 2023-07-17 18:30:30.947656
GRANTED 17 2023-07-17 18:30:30.947656
REQUEST 16 2023-07-17 18:30:30.948160
RELEASED 17 2023-07-17 18:30:30.951486
GRANTED 18 2023-07-17 18:30:30.952544
REQUEST 17 2023-07-17 18:30:30.953205
RELEASED 18 2023-07-17 18:30:30.958665
GRANTED 19 2023-07-17 18:30:30.959066
REQUEST 18 2023-07-17 18:30:30.959570
RELEASED 19 2023-07-17 18:30:30.968241
GRANTED 20 2023-07-17 18:30:30.969375
REQUEST 19 2023-07-17 18:30:30.970643
RELEASED 20 2023-07-17 18:30:30.986439
GRANTED 22 2023-07-17 18:30:30.986439
REQUEST 20 2023-07-17 18:30:30.987377
RELEASED 22 2023-07-17 18:30:30.001578
GRANTED 21 2023-07-17 18:30:30.002075
REQUEST 22 2023-07-17 18:30:30.002581
RELEASED 21 2023-07-17 18:30:30.006391
GRANTED 23 2023-07-17 18:30:30.007507
REQUEST 21 2023-07-17 18:30:30.008857
RELEASED 23 2023-07-17 18:30:30.018285
GRANTED 24 2023-07-17 18:30:30.018846
REQUEST 23 2023-07-17 18:30:30.019352
RELEASED 24 2023-07-17 18:30:30.021428
GRANTED 25 2023-07-17 18:30:30.021927
REQUEST 24 2023-07-17 18:30:30.022433
RELEASED 25 2023-07-17 18:30:30.029185
GRANTED 26 2023-07-17 18:30:30.030390
REQUEST 25 2023-07-17 18:30:30.031468
RELEASED 26 2023-07-17 18:30:30.037661
GRANTED 27 2023-07-17 18:30:30.038167
REQUEST 26 2023-07-17 18:30:30.038251
RELEASED 27 2023-07-17 18:30:30.044714
GRANTED 28 2023-07-17 18:30:30.044714
REQUEST 27 2023-07-17 18:30:30.045221
RELEASED 28 2023-07-17 18:30:30.056006
GRANTED 29 2023-07-17 18:30:30.056006
REQUEST 28 2023-07-17 18:30:30.057519
RELEASED 29 2023-07-17 18:30:30.063214
GRANTED 30 2023-07-17 18:30:30.064336
REQUEST 29 2023-07-17 18:30:30.064842
RELEASED 30 2023-07-17 18:30:30.071274
GRANTED 31 2023-07-17 18:30:30.072814
REQUEST 30 2023-07-17 18:30:30.074384

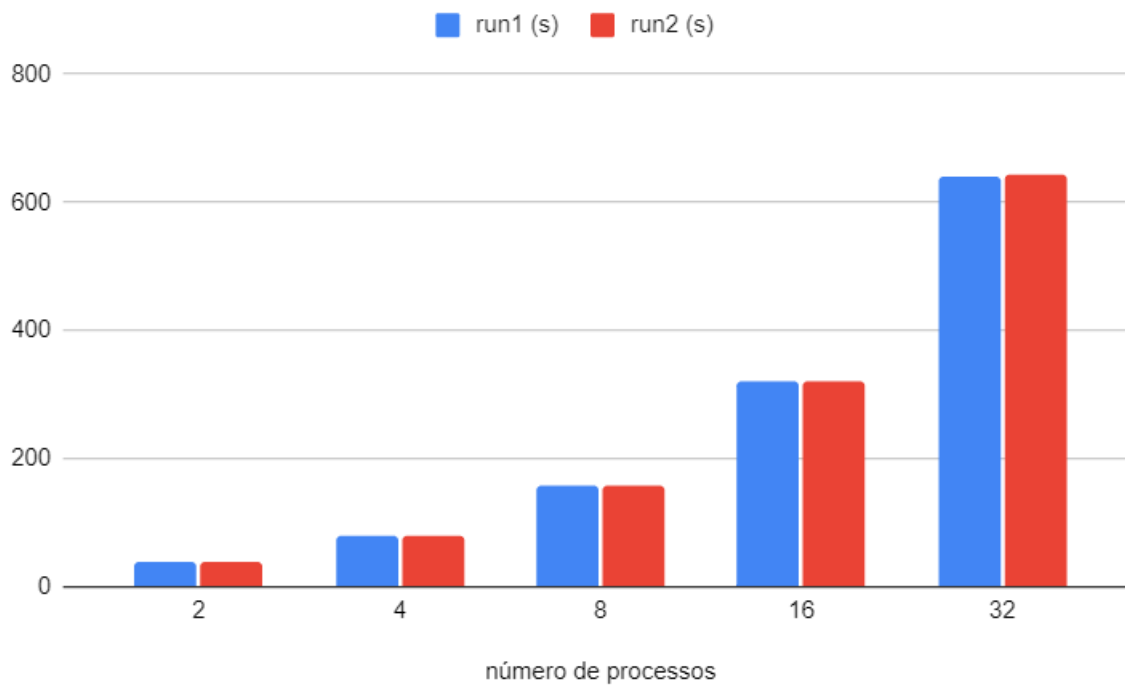
RELEASED 31 2023-07-17 18:30:30.078104
GRANTED 1 2023-07-17 18:30:30.078104
REQUEST 31 2023-07-17 18:30:30.078611
RELEASED 1 2023-07-17 18:30:30.088479
GRANTED 0 2023-07-17 18:30:30.088479
REQUEST 1 2023-07-17 18:30:30.089066
RELEASED 0 2023-07-17 18:30:30.092500
GRANTED 2 2023-07-17 18:30:30.093009
REQUEST 0 2023-07-17 18:30:30.093540
RELEASED 2 2023-07-17 18:30:30.109788
GRANTED 3 2023-07-17 18:30:30.110380
REQUEST 2 2023-07-17 18:30:30.110888
RELEASED 3 2023-07-17 18:30:30.116229
GRANTED 5 2023-07-17 18:30:30.116229
REQUEST 3 2023-07-17 18:30:30.117237
RELEASED 5 2023-07-17 18:30:30.133591
GRANTED 4 2023-07-17 18:30:30.133591
REQUEST 5 2023-07-17 18:30:30.134097
RELEASED 4 2023-07-17 18:30:30.140860
GRANTED 6 2023-07-17 18:30:30.141366
REQUEST 4 2023-07-17 18:30:30.142050
RELEASED 6 2023-07-17 18:30:30.145824
GRANTED 7 2023-07-17 18:30:30.145824
REQUEST 6 2023-07-17 18:30:30.146329
RELEASED 7 2023-07-17 18:30:30.157798
GRANTED 8 2023-07-17 18:30:30.158374
REQUEST 7 2023-07-17 18:30:30.159412
RELEASED 8 2023-07-17 18:30:30.161004
GRANTED 9 2023-07-17 18:30:30.162288
REQUEST 8 2023-07-17 18:30:30.163470
RELEASED 9 2023-07-17 18:30:30.170005
GRANTED 10 2023-07-17 18:30:30.170363
REQUEST 9 2023-07-17 18:30:30.170868
RELEASED 10 2023-07-17 18:30:30.179958
GRANTED 11 2023-07-17 18:30:30.179958
REQUEST 10 2023-07-17 18:30:30.180466
RELEASED 11 2023-07-17 18:30:30.200221
GRANTED 12 2023-07-17 18:30:30.201221
REQUEST 11 2023-07-17 18:30:30.202888
RELEASED 12 2023-07-17 18:30:30.217510
GRANTED 13 2023-07-17 18:30:30.217510
REQUEST 12 2023-07-17 18:30:30.218015
RELEASED 13 2023-07-17 18:31:31.223283
GRANTED 14 2023-07-17 18:31:31.223779
REQUEST 13 2023-07-17 18:31:31.224283
RELEASED 14 2023-07-17 18:31:31.240031
GRANTED 15 2023-07-17 18:31:31.241006
REQUEST 14 2023-07-17 18:31:31.241006
RELEASED 15 2023-07-17 18:31:31.246783
GRANTED 16 2023-07-17 18:31:31.247834
REQUEST 15 2023-07-17 18:31:31.248461
RELEASED 16 2023-07-17 18:31:31.252316
GRANTED 17 2023-07-17 18:31:31.252817
REQUEST 16 2023-07-17 18:31:31.253322
RELEASED 17 2023-07-17 18:31:31.270396

GRANTED 18 2023-07-17 18:31:31.270396
REQUEST 17 2023-07-17 18:31:31.270900
RELEASED 18 2023-07-17 18:31:31.281905
GRANTED 19 2023-07-17 18:31:31.281905
REQUEST 18 2023-07-17 18:31:31.282409
RELEASED 19 2023-07-17 18:31:31.286130
GRANTED 20 2023-07-17 18:31:31.286130
REQUEST 19 2023-07-17 18:31:31.287121
RELEASED 20 2023-07-17 18:31:31.289585
GRANTED 22 2023-07-17 18:31:31.289585
REQUEST 20 2023-07-17 18:31:31.290089
RELEASED 22 2023-07-17 18:31:31.297050
GRANTED 21 2023-07-17 18:31:31.300890
REQUEST 22 2023-07-17 18:31:31.302374
RELEASED 21 2023-07-17 18:31:31.306080
GRANTED 23 2023-07-17 18:31:31.306080
REQUEST 21 2023-07-17 18:31:31.307071
RELEASED 23 2023-07-17 18:31:31.313542
GRANTED 24 2023-07-17 18:31:31.313542
REQUEST 23 2023-07-17 18:31:31.314046
RELEASED 24 2023-07-17 18:31:31.315684
GRANTED 25 2023-07-17 18:31:31.315684
REQUEST 24 2023-07-17 18:31:31.316242
RELEASED 25 2023-07-17 18:31:31.319338
GRANTED 26 2023-07-17 18:31:31.319338
REQUEST 25 2023-07-17 18:31:31.319843
RELEASED 26 2023-07-17 18:31:31.328688
GRANTED 27 2023-07-17 18:31:31.330630
REQUEST 26 2023-07-17 18:31:31.331918
RELEASED 27 2023-07-17 18:31:31.340577
GRANTED 28 2023-07-17 18:31:31.340577
REQUEST 27 2023-07-17 18:31:31.341083
RELEASED 28 2023-07-17 18:31:31.346475
GRANTED 29 2023-07-17 18:31:31.346988
REQUEST 28 2023-07-17 18:31:31.347520
RELEASED 29 2023-07-17 18:31:31.350183
GRANTED 30 2023-07-17 18:31:31.350183
REQUEST 29 2023-07-17 18:31:31.350688
RELEASED 30 2023-07-17 18:31:31.363232
GRANTED 31 2023-07-17 18:31:31.364231
REQUEST 30 2023-07-17 18:31:31.364796
RELEASED 31 2023-07-17 18:31:31.366903
GRANTED 1 2023-07-17 18:31:31.367411
REQUEST 31 2023-07-17 18:31:31.367944
RELEASED 1 2023-07-17 18:31:31.403687
GRANTED 0 2023-07-17 18:31:31.405687
REQUEST 1 2023-07-17 18:31:31.407394
RELEASED 0 2023-07-17 18:31:31.413918
GRANTED 2 2023-07-17 18:31:31.414373
REQUEST 0 2023-07-17 18:31:31.414878
RELEASED 2 2023-07-17 18:31:31.426875
GRANTED 3 2023-07-17 18:31:31.427487
REQUEST 2 2023-07-17 18:31:31.427992
RELEASED 3 2023-07-17 18:31:31.433458
GRANTED 5 2023-07-17 18:31:31.433458

REQUEST 3 2023-07-17 18:31:31.433962
RELEASED 5 2023-07-17 18:31:31.441193
GRANTED 4 2023-07-17 18:31:31.441193
REQUEST 5 2023-07-17 18:31:31.441697
RELEASED 4 2023-07-17 18:31:31.447069
GRANTED 6 2023-07-17 18:31:31.447069
REQUEST 4 2023-07-17 18:31:31.447631
RELEASED 6 2023-07-17 18:31:31.460841
GRANTED 7 2023-07-17 18:31:31.462136
REQUEST 6 2023-07-17 18:31:31.463101
RELEASED 7 2023-07-17 18:31:31.478897
GRANTED 8 2023-07-17 18:31:31.479400
REQUEST 7 2023-07-17 18:31:31.479932
RELEASED 8 2023-07-17 18:31:31.484918
GRANTED 9 2023-07-17 18:31:31.485304
REQUEST 8 2023-07-17 18:31:31.485809
RELEASED 9 2023-07-17 18:31:31.497479
GRANTED 10 2023-07-17 18:31:31.498170
REQUEST 9 2023-07-17 18:31:31.499343
RELEASED 10 2023-07-17 18:31:31.503432
GRANTED 11 2023-07-17 18:31:31.503834
REQUEST 10 2023-07-17 18:31:31.504338
RELEASED 11 2023-07-17 18:32:32.517711
GRANTED 12 2023-07-17 18:32:32.518703
REQUEST 11 2023-07-17 18:32:32.518964
RELEASED 12 2023-07-17 18:32:32.528699
GRANTED 13 2023-07-17 18:32:32.529857
REQUEST 12 2023-07-17 18:32:32.530379
RELEASED 13 2023-07-17 18:32:32.534410
GRANTED 14 2023-07-17 18:32:32.534754
REQUEST 13 2023-07-17 18:32:32.535260
RELEASED 14 2023-07-17 18:32:32.538298
GRANTED 15 2023-07-17 18:32:32.538734
REQUEST 14 2023-07-17 18:32:32.539239
RELEASED 15 2023-07-17 18:32:32.549449
GRANTED 16 2023-07-17 18:32:32.549449
REQUEST 15 2023-07-17 18:32:32.549954
RELEASED 16 2023-07-17 18:32:32.560346
GRANTED 17 2023-07-17 18:32:32.560346
REQUEST 16 2023-07-17 18:32:32.560851
RELEASED 17 2023-07-17 18:32:32.572181
GRANTED 18 2023-07-17 18:32:32.572688
REQUEST 17 2023-07-17 18:32:32.573230
RELEASED 18 2023-07-17 18:32:32.582651
GRANTED 19 2023-07-17 18:32:32.582651
REQUEST 18 2023-07-17 18:32:32.583156
RELEASED 19 2023-07-17 18:32:32.588766
GRANTED 20 2023-07-17 18:32:32.589120
REQUEST 19 2023-07-17 18:32:32.589624
RELEASED 20 2023-07-17 18:32:32.592071
GRANTED 22 2023-07-17 18:32:32.592615
REQUEST 20 2023-07-17 18:32:32.593140
RELEASED 22 2023-07-17 18:32:32.604405
GRANTED 21 2023-07-17 18:32:32.604405
REQUEST 22 2023-07-17 18:32:32.604910

RELEASED 21 2023-07-17 18:32:32.619655
GRANTED 23 2023-07-17 18:32:32.620067
REQUEST 21 2023-07-17 18:32:32.620573
RELEASED 23 2023-07-17 18:32:32.631367
GRANTED 24 2023-07-17 18:32:32.631367
REQUEST 23 2023-07-17 18:32:32.631872
RELEASED 24 2023-07-17 18:32:32.651709
GRANTED 25 2023-07-17 18:32:32.652084
REQUEST 24 2023-07-17 18:32:32.652591
RELEASED 25 2023-07-17 18:32:32.673056
GRANTED 26 2023-07-17 18:32:32.673495
REQUEST 25 2023-07-17 18:32:32.673999
RELEASED 26 2023-07-17 18:32:32.683391
GRANTED 27 2023-07-17 18:32:32.683897
REQUEST 26 2023-07-17 18:32:32.684401
RELEASED 27 2023-07-17 18:32:32.699991
GRANTED 28 2023-07-17 18:32:32.700381
REQUEST 27 2023-07-17 18:32:32.700887
RELEASED 28 2023-07-17 18:32:32.719408
GRANTED 29 2023-07-17 18:32:32.719911
REQUEST 28 2023-07-17 18:32:32.719911
RELEASED 29 2023-07-17 18:32:32.735764
GRANTED 30 2023-07-17 18:32:32.736763
REQUEST 29 2023-07-17 18:32:32.737271
RELEASED 30 2023-07-17 18:32:32.758134
GRANTED 31 2023-07-17 18:32:32.758655
REQUEST 30 2023-07-17 18:32:32.759521
RELEASED 31 2023-07-17 18:32:32.782175
GRANTED 1 2023-07-17 18:32:32.782175
REQUEST 31 2023-07-17 18:32:32.782679
RELEASED 1 2023-07-17 18:32:32.802341
GRANTED 0 2023-07-17 18:32:32.802859
RELEASED 0 2023-07-17 18:32:32.820176
GRANTED 2 2023-07-17 18:32:32.820176
RELEASED 2 2023-07-17 18:32:32.840650
GRANTED 3 2023-07-17 18:32:32.840650
RELEASED 3 2023-07-17 18:32:32.852232
GRANTED 5 2023-07-17 18:32:32.853223
RELEASED 5 2023-07-17 18:32:32.865699
GRANTED 4 2023-07-17 18:32:32.866205
RELEASED 4 2023-07-17 18:32:32.880296
GRANTED 6 2023-07-17 18:32:32.880296
RELEASED 6 2023-07-17 18:32:32.890825
GRANTED 7 2023-07-17 18:32:32.896653
RELEASED 7 2023-07-17 18:32:32.919572
GRANTED 8 2023-07-17 18:32:32.920077
RELEASED 8 2023-07-17 18:32:32.940234
GRANTED 9 2023-07-17 18:32:32.940234
RELEASED 9 2023-07-17 18:33:33.951323
GRANTED 10 2023-07-17 18:33:33.951787
RELEASED 10 2023-07-17 18:33:33.974058
GRANTED 11 2023-07-17 18:33:33.974536
RELEASED 11 2023-07-17 18:33:33.991442
GRANTED 12 2023-07-17 18:33:33.992360
RELEASED 12 2023-07-17 18:33:33.015521

GRANTED 13 2023-07-17 18:33:33.016417
RELEASED 13 2023-07-17 18:33:33.042207
GRANTED 14 2023-07-17 18:33:33.042207
RELEASED 14 2023-07-17 18:33:33.053832
GRANTED 15 2023-07-17 18:33:33.055388
RELEASED 15 2023-07-17 18:33:33.080307
GRANTED 16 2023-07-17 18:33:33.080727
RELEASED 16 2023-07-17 18:33:33.111424
GRANTED 17 2023-07-17 18:33:33.111424
RELEASED 17 2023-07-17 18:33:33.134466
GRANTED 18 2023-07-17 18:33:33.134968
RELEASED 18 2023-07-17 18:33:33.149758
GRANTED 19 2023-07-17 18:33:33.150214
RELEASED 19 2023-07-17 18:33:33.170993
GRANTED 20 2023-07-17 18:33:33.170993
RELEASED 20 2023-07-17 18:33:33.195098
GRANTED 22 2023-07-17 18:33:33.195608
RELEASED 22 2023-07-17 18:33:33.209831
GRANTED 21 2023-07-17 18:33:33.211957
RELEASED 21 2023-07-17 18:33:33.242990
GRANTED 23 2023-07-17 18:33:33.243500
RELEASED 23 2023-07-17 18:33:33.265068
GRANTED 24 2023-07-17 18:33:33.265068
RELEASED 24 2023-07-17 18:33:33.274528
GRANTED 25 2023-07-17 18:33:33.275012
RELEASED 25 2023-07-17 18:33:33.285782
GRANTED 26 2023-07-17 18:33:33.285782
RELEASED 26 2023-07-17 18:33:33.297993
GRANTED 27 2023-07-17 18:33:33.298499
RELEASED 27 2023-07-17 18:33:33.307228
GRANTED 28 2023-07-17 18:33:33.307732
RELEASED 28 2023-07-17 18:33:33.327140
GRANTED 29 2023-07-17 18:33:33.328219
RELEASED 29 2023-07-17 18:33:33.351516
GRANTED 30 2023-07-17 18:33:33.351996
RELEASED 30 2023-07-17 18:33:33.372407
GRANTED 31 2023-07-17 18:33:33.372965
RELEASED 31 2023-07-17 18:33:33.385732



▼ Test 2 de escalabilidade do sistema.

▼ $n = 2$, $r = 5$, e $k = 1$ - 9,110 segundos

▼ results.txt (10 linhas 2x5)

```
Process Id: 0 - 2023-07-17 18:37:14.358281
Process Id: 1 - 2023-07-17 18:37:15.372594
Process Id: 0 - 2023-07-17 18:37:16.380497
Process Id: 1 - 2023-07-17 18:37:17.395416
Process Id: 0 - 2023-07-17 18:37:18.407442
Process Id: 1 - 2023-07-17 18:37:19.421431
Process Id: 0 - 2023-07-17 18:37:20.430812
Process Id: 1 - 2023-07-17 18:37:21.441150
Process Id: 0 - 2023-07-17 18:37:22.453274
Process Id: 1 - 2023-07-17 18:37:23.467818
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 18:37:37.356679
GRANTED 0 2023-07-17 18:37:37.357777
REQUEST 1 2023-07-17 18:37:37.372886
RELEASED 0 2023-07-17 18:37:37.368761
GRANTED 1 2023-07-17 18:37:37.370835
```

```

REQUEST 0 2023-07-17 18:37:37.372082
RELEASED 1 2023-07-17 18:37:37.379042
GRANTED 0 2023-07-17 18:37:37.379465
REQUEST 1 2023-07-17 18:37:37.379969
RELEASED 0 2023-07-17 18:37:37.394309
GRANTED 1 2023-07-17 18:37:37.394309
REQUEST 0 2023-07-17 18:37:37.395416
RELEASED 1 2023-07-17 18:37:37.405828
GRANTED 0 2023-07-17 18:37:37.406322
REQUEST 1 2023-07-17 18:37:37.406934
RELEASED 0 2023-07-17 18:37:37.417320
GRANTED 1 2023-07-17 18:37:37.420923
REQUEST 0 2023-07-17 18:37:37.421431
RELEASED 1 2023-07-17 18:37:37.429738
GRANTED 0 2023-07-17 18:37:37.429738
REQUEST 1 2023-07-17 18:37:37.430305
RELEASED 0 2023-07-17 18:37:37.440270
GRANTED 1 2023-07-17 18:37:37.440630
REQUEST 0 2023-07-17 18:37:37.441150
RELEASED 1 2023-07-17 18:37:37.449263
GRANTED 0 2023-07-17 18:37:37.451485
REQUEST 1 2023-07-17 18:37:37.452094
RELEASED 0 2023-07-17 18:37:37.465009
GRANTED 1 2023-07-17 18:37:37.466134
RELEASED 1 2023-07-17 18:37:37.488129

```

▼ **n = 4, r = 5, e k = 1 - 19,296 segundos**

▼ results.txt (20 linhas 4x5)

```

Process Id: 0 - 2023-07-17 18:37:52.056271
Process Id: 1 - 2023-07-17 18:37:53.071924
Process Id: 2 - 2023-07-17 18:37:54.086812
Process Id: 3 - 2023-07-17 18:37:55.099980
Process Id: 0 - 2023-07-17 18:37:56.123367
Process Id: 1 - 2023-07-17 18:37:57.137289
Process Id: 2 - 2023-07-17 18:37:58.147653
Process Id: 3 - 2023-07-17 18:37:59.167682
Process Id: 0 - 2023-07-17 18:38:00.193694
Process Id: 1 - 2023-07-17 18:38:01.217484
Process Id: 2 - 2023-07-17 18:38:02.232130
Process Id: 3 - 2023-07-17 18:38:03.247082
Process Id: 0 - 2023-07-17 18:38:04.259228
Process Id: 1 - 2023-07-17 18:38:05.276428
Process Id: 2 - 2023-07-17 18:38:06.285366
Process Id: 3 - 2023-07-17 18:38:07.295615
Process Id: 0 - 2023-07-17 18:38:08.307521
Process Id: 1 - 2023-07-17 18:38:09.323413
Process Id: 2 - 2023-07-17 18:38:10.337610
Process Id: 3 - 2023-07-17 18:38:11.351990

```


▼ serverlog.txt

```
Message Process ID  Time
REQUEST 0 2023-07-17 18:37:37.054174
GRANTED 0 2023-07-17 18:37:37.055223
REQUEST 1 2023-07-17 18:37:37.070186
REQUEST 2 2023-07-17 18:37:37.100375
REQUEST 3 2023-07-17 18:37:37.114815
RELEASED 0 2023-07-17 18:37:37.070899
GRANTED 1 2023-07-17 18:37:37.070899
REQUEST 0 2023-07-17 18:37:37.071403
RELEASED 1 2023-07-17 18:37:37.084736
GRANTED 2 2023-07-17 18:37:37.085742
REQUEST 1 2023-07-17 18:37:37.086270
RELEASED 2 2023-07-17 18:37:37.095164
GRANTED 3 2023-07-17 18:37:37.096463
REQUEST 2 2023-07-17 18:37:37.097530
RELEASED 3 2023-07-17 18:37:37.122337
GRANTED 0 2023-07-17 18:37:37.122337
REQUEST 3 2023-07-17 18:37:37.122842
RELEASED 0 2023-07-17 18:37:37.136253
GRANTED 1 2023-07-17 18:37:37.136253
REQUEST 0 2023-07-17 18:37:37.136758
RELEASED 1 2023-07-17 18:37:37.146095
GRANTED 2 2023-07-17 18:37:37.146622
REQUEST 1 2023-07-17 18:37:37.147127
RELEASED 2 2023-07-17 18:37:37.160139
GRANTED 3 2023-07-17 18:37:37.162725
REQUEST 2 2023-07-17 18:37:37.164784
RELEASED 3 2023-07-17 18:38:38.188370
GRANTED 0 2023-07-17 18:38:38.191119
REQUEST 3 2023-07-17 18:38:38.192815
RELEASED 0 2023-07-17 18:38:38.216400
GRANTED 1 2023-07-17 18:38:38.216924
REQUEST 0 2023-07-17 18:38:38.216979
RELEASED 1 2023-07-17 18:38:38.230128
GRANTED 2 2023-07-17 18:38:38.230706
REQUEST 1 2023-07-17 18:38:38.231621
RELEASED 2 2023-07-17 18:38:38.244944
GRANTED 3 2023-07-17 18:38:38.245459
REQUEST 2 2023-07-17 18:38:38.246535
RELEASED 3 2023-07-17 18:38:38.258669
GRANTED 0 2023-07-17 18:38:38.258669
REQUEST 3 2023-07-17 18:38:38.259228
RELEASED 0 2023-07-17 18:38:38.274230
GRANTED 1 2023-07-17 18:38:38.274812
REQUEST 0 2023-07-17 18:38:38.275921
RELEASED 1 2023-07-17 18:38:38.284531
GRANTED 2 2023-07-17 18:38:38.284859
REQUEST 1 2023-07-17 18:38:38.285366
RELEASED 2 2023-07-17 18:38:38.294069
GRANTED 3 2023-07-17 18:38:38.294576
REQUEST 2 2023-07-17 18:38:38.295615
```

```
RELEASED 3 2023-07-17 18:38:38.306023
GRANTED 0 2023-07-17 18:38:38.306917
REQUEST 3 2023-07-17 18:38:38.306917
RELEASED 0 2023-07-17 18:38:38.321878
GRANTED 1 2023-07-17 18:38:38.322385
RELEASED 1 2023-07-17 18:38:38.336361
GRANTED 2 2023-07-17 18:38:38.336361
RELEASED 2 2023-07-17 18:38:38.347167
GRANTED 3 2023-07-17 18:38:38.348879
RELEASED 3 2023-07-17 18:38:38.369307
```

▼ **n = 8, r = 5, e k = 1 - 39,556 segundos**

▼ results.txt (40 linhas 8x5)

```
Process Id: 0 - 2023-07-17 18:38:42.490084
Process Id: 1 - 2023-07-17 18:38:43.502062
Process Id: 2 - 2023-07-17 18:38:44.512622
Process Id: 3 - 2023-07-17 18:38:45.533106
Process Id: 4 - 2023-07-17 18:38:46.553839
Process Id: 5 - 2023-07-17 18:38:47.565941
Process Id: 6 - 2023-07-17 18:38:48.573751
Process Id: 7 - 2023-07-17 18:38:49.589964
Process Id: 0 - 2023-07-17 18:38:50.600442
Process Id: 1 - 2023-07-17 18:38:51.616319
Process Id: 2 - 2023-07-17 18:38:52.656682
Process Id: 3 - 2023-07-17 18:38:53.673667
Process Id: 4 - 2023-07-17 18:38:54.687588
Process Id: 5 - 2023-07-17 18:38:55.703056
Process Id: 6 - 2023-07-17 18:38:56.722417
Process Id: 7 - 2023-07-17 18:38:57.731698
Process Id: 0 - 2023-07-17 18:38:58.741850
Process Id: 1 - 2023-07-17 18:38:59.753361
Process Id: 2 - 2023-07-17 18:39:00.765351
Process Id: 3 - 2023-07-17 18:39:01.779106
Process Id: 4 - 2023-07-17 18:39:02.789982
Process Id: 5 - 2023-07-17 18:39:03.797712
Process Id: 6 - 2023-07-17 18:39:04.810773
Process Id: 7 - 2023-07-17 18:39:05.827010
Process Id: 0 - 2023-07-17 18:39:06.839176
Process Id: 1 - 2023-07-17 18:39:07.850665
Process Id: 2 - 2023-07-17 18:39:08.868133
Process Id: 3 - 2023-07-17 18:39:09.875192
Process Id: 4 - 2023-07-17 18:39:10.888225
Process Id: 5 - 2023-07-17 18:39:11.897813
Process Id: 6 - 2023-07-17 18:39:12.905348
Process Id: 7 - 2023-07-17 18:39:13.920667
Process Id: 0 - 2023-07-17 18:39:14.928090
Process Id: 1 - 2023-07-17 18:39:15.947514
Process Id: 2 - 2023-07-17 18:39:16.972256
Process Id: 3 - 2023-07-17 18:39:17.984078
Process Id: 4 - 2023-07-17 18:39:18.994217
```

```
Process Id: 5 - 2023-07-17 18:39:20.012899
Process Id: 6 - 2023-07-17 18:39:21.023695
Process Id: 7 - 2023-07-17 18:39:22.048631
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 18:38:38.487280
GRANTED 0 2023-07-17 18:38:38.488909
REQUEST 1 2023-07-17 18:38:38.517971
REQUEST 2 2023-07-17 18:38:38.548687
REQUEST 3 2023-07-17 18:38:38.548687
REQUEST 4 2023-07-17 18:38:38.579665
REQUEST 5 2023-07-17 18:38:38.609395
REQUEST 6 2023-07-17 18:38:38.640817
REQUEST 7 2023-07-17 18:38:38.686923
RELEASED 0 2023-07-17 18:38:38.500501
GRANTED 1 2023-07-17 18:38:38.501033
REQUEST 0 2023-07-17 18:38:38.501538
RELEASED 1 2023-07-17 18:38:38.511047
GRANTED 2 2023-07-17 18:38:38.511583
REQUEST 1 2023-07-17 18:38:38.512092
RELEASED 2 2023-07-17 18:38:38.526545
GRANTED 3 2023-07-17 18:38:38.531346
REQUEST 2 2023-07-17 18:38:38.532383
RELEASED 3 2023-07-17 18:38:38.552808
GRANTED 4 2023-07-17 18:38:38.552808
REQUEST 3 2023-07-17 18:38:38.553314
RELEASED 4 2023-07-17 18:38:38.563619
GRANTED 5 2023-07-17 18:38:38.564920
REQUEST 4 2023-07-17 18:38:38.565427
RELEASED 5 2023-07-17 18:38:38.572521
GRANTED 6 2023-07-17 18:38:38.572521
REQUEST 5 2023-07-17 18:38:38.573189
RELEASED 6 2023-07-17 18:38:38.587110
GRANTED 7 2023-07-17 18:38:38.588386
REQUEST 6 2023-07-17 18:38:38.589502
RELEASED 7 2023-07-17 18:38:38.597901
GRANTED 0 2023-07-17 18:38:38.599331
REQUEST 7 2023-07-17 18:38:38.599936
RELEASED 0 2023-07-17 18:38:38.611842
GRANTED 1 2023-07-17 18:38:38.613349
REQUEST 0 2023-07-17 18:38:38.615076
RELEASED 1 2023-07-17 18:38:38.651742
GRANTED 2 2023-07-17 18:38:38.653986
REQUEST 1 2023-07-17 18:38:38.655089
RELEASED 2 2023-07-17 18:38:38.672638
GRANTED 3 2023-07-17 18:38:38.672638
REQUEST 2 2023-07-17 18:38:38.673143
RELEASED 3 2023-07-17 18:38:38.684883
GRANTED 4 2023-07-17 18:38:38.684883
REQUEST 3 2023-07-17 18:38:38.686958
```

RELEASED 4 2023-07-17 18:38:38.702012
GRANTED 5 2023-07-17 18:38:38.702012
REQUEST 4 2023-07-17 18:38:38.702517
RELEASED 5 2023-07-17 18:38:38.720909
GRANTED 6 2023-07-17 18:38:38.721383
REQUEST 5 2023-07-17 18:38:38.721889
RELEASED 6 2023-07-17 18:38:38.729496
GRANTED 7 2023-07-17 18:38:38.730582
REQUEST 6 2023-07-17 18:38:38.731615
RELEASED 7 2023-07-17 18:38:38.740784
GRANTED 0 2023-07-17 18:38:38.741295
REQUEST 7 2023-07-17 18:38:38.741850
RELEASED 0 2023-07-17 18:38:38.752292
GRANTED 1 2023-07-17 18:38:38.752796
REQUEST 0 2023-07-17 18:38:38.752854
RELEASED 1 2023-07-17 18:39:39.764318
GRANTED 2 2023-07-17 18:39:39.764318
REQUEST 1 2023-07-17 18:39:39.764825
RELEASED 2 2023-07-17 18:39:39.778070
GRANTED 3 2023-07-17 18:39:39.778070
REQUEST 2 2023-07-17 18:39:39.778574
RELEASED 3 2023-07-17 18:39:39.788916
GRANTED 4 2023-07-17 18:39:39.788916
REQUEST 3 2023-07-17 18:39:39.789473
RELEASED 4 2023-07-17 18:39:39.796152
GRANTED 5 2023-07-17 18:39:39.796661
REQUEST 4 2023-07-17 18:39:39.797347
RELEASED 5 2023-07-17 18:39:39.809772
GRANTED 6 2023-07-17 18:39:39.810268
REQUEST 5 2023-07-17 18:39:39.810773
RELEASED 6 2023-07-17 18:39:39.824197
GRANTED 7 2023-07-17 18:39:39.825300
REQUEST 6 2023-07-17 18:39:39.826447
RELEASED 7 2023-07-17 18:39:39.838147
GRANTED 0 2023-07-17 18:39:39.838147
REQUEST 7 2023-07-17 18:39:39.838653
RELEASED 0 2023-07-17 18:39:39.849087
GRANTED 1 2023-07-17 18:39:39.849592
REQUEST 0 2023-07-17 18:39:39.850128
RELEASED 1 2023-07-17 18:39:39.864850
GRANTED 2 2023-07-17 18:39:39.865359
REQUEST 1 2023-07-17 18:39:39.866284
RELEASED 2 2023-07-17 18:39:39.873653
GRANTED 3 2023-07-17 18:39:39.874159
REQUEST 2 2023-07-17 18:39:39.874668
RELEASED 3 2023-07-17 18:39:39.887137
GRANTED 4 2023-07-17 18:39:39.887137
REQUEST 3 2023-07-17 18:39:39.887720
RELEASED 4 2023-07-17 18:39:39.896122
GRANTED 5 2023-07-17 18:39:39.896631
REQUEST 4 2023-07-17 18:39:39.897732
RELEASED 5 2023-07-17 18:39:39.904290
GRANTED 6 2023-07-17 18:39:39.904290
REQUEST 5 2023-07-17 18:39:39.904795
RELEASED 6 2023-07-17 18:39:39.920160

```
GRANTED 7 2023-07-17 18:39:39.920160
REQUEST 6 2023-07-17 18:39:39.920667
RELEASED 7 2023-07-17 18:39:39.927043
GRANTED 0 2023-07-17 18:39:39.927043
REQUEST 7 2023-07-17 18:39:39.927548
RELEASED 0 2023-07-17 18:39:39.944510
GRANTED 1 2023-07-17 18:39:39.945925
RELEASED 1 2023-07-17 18:39:39.971173
GRANTED 2 2023-07-17 18:39:39.971173
RELEASED 2 2023-07-17 18:39:39.981735
GRANTED 3 2023-07-17 18:39:39.982243
RELEASED 3 2023-07-17 18:39:39.992818
GRANTED 4 2023-07-17 18:39:39.993186
RELEASED 4 2023-07-17 18:39:39.011432
GRANTED 5 2023-07-17 18:39:39.012395
RELEASED 5 2023-07-17 18:39:39.020895
GRANTED 6 2023-07-17 18:39:39.021402
RELEASED 6 2023-07-17 18:39:39.046404
GRANTED 7 2023-07-17 18:39:39.046917
RELEASED 7 2023-07-17 18:39:39.063224
```

▼ **n = 16, r = 5, e k = 1 - 80,085 segundos**

▼ results.txt (80 linhas 16x5)

```
Process Id: 0 - 2023-07-17 18:42:48.744008
Process Id: 1 - 2023-07-17 18:42:49.752802
Process Id: 2 - 2023-07-17 18:42:50.770926
Process Id: 3 - 2023-07-17 18:42:51.779279
Process Id: 4 - 2023-07-17 18:42:52.784989
Process Id: 5 - 2023-07-17 18:42:53.798220
Process Id: 6 - 2023-07-17 18:42:54.812032
Process Id: 7 - 2023-07-17 18:42:55.820102
Process Id: 8 - 2023-07-17 18:42:56.832118
Process Id: 9 - 2023-07-17 18:42:57.852712
Process Id: 10 - 2023-07-17 18:42:58.862294
Process Id: 11 - 2023-07-17 18:42:59.871174
Process Id: 12 - 2023-07-17 18:43:00.888574
Process Id: 13 - 2023-07-17 18:43:01.900817
Process Id: 14 - 2023-07-17 18:43:02.914289
Process Id: 15 - 2023-07-17 18:43:03.926501
Process Id: 0 - 2023-07-17 18:43:04.941966
Process Id: 1 - 2023-07-17 18:43:05.948657
Process Id: 2 - 2023-07-17 18:43:06.971088
Process Id: 3 - 2023-07-17 18:43:07.992399
Process Id: 4 - 2023-07-17 18:43:09.004262
Process Id: 5 - 2023-07-17 18:43:10.019157
Process Id: 6 - 2023-07-17 18:43:11.024531
Process Id: 7 - 2023-07-17 18:43:12.038839
Process Id: 8 - 2023-07-17 18:43:13.046472
Process Id: 9 - 2023-07-17 18:43:14.059431
Process Id: 10 - 2023-07-17 18:43:15.070978
```

Process Id: 11 - 2023-07-17 18:43:16.083074
Process Id: 12 - 2023-07-17 18:43:17.096709
Process Id: 13 - 2023-07-17 18:43:18.121695
Process Id: 14 - 2023-07-17 18:43:19.142720
Process Id: 15 - 2023-07-17 18:43:20.158493
Process Id: 0 - 2023-07-17 18:43:21.173284
Process Id: 1 - 2023-07-17 18:43:22.183727
Process Id: 2 - 2023-07-17 18:43:23.195234
Process Id: 3 - 2023-07-17 18:43:24.208217
Process Id: 4 - 2023-07-17 18:43:25.230484
Process Id: 5 - 2023-07-17 18:43:26.251669
Process Id: 6 - 2023-07-17 18:43:27.265522
Process Id: 7 - 2023-07-17 18:43:28.280239
Process Id: 8 - 2023-07-17 18:43:29.289404
Process Id: 9 - 2023-07-17 18:43:30.309653
Process Id: 10 - 2023-07-17 18:43:31.322636
Process Id: 11 - 2023-07-17 18:43:32.339357
Process Id: 12 - 2023-07-17 18:43:33.350861
Process Id: 13 - 2023-07-17 18:43:34.373534
Process Id: 14 - 2023-07-17 18:43:35.382225
Process Id: 15 - 2023-07-17 18:43:36.393565
Process Id: 0 - 2023-07-17 18:43:37.412231
Process Id: 1 - 2023-07-17 18:43:38.421758
Process Id: 2 - 2023-07-17 18:43:39.433172
Process Id: 3 - 2023-07-17 18:43:40.457133
Process Id: 4 - 2023-07-17 18:43:41.468776
Process Id: 5 - 2023-07-17 18:43:42.478310
Process Id: 6 - 2023-07-17 18:43:43.485907
Process Id: 7 - 2023-07-17 18:43:44.497309
Process Id: 8 - 2023-07-17 18:43:45.514655
Process Id: 9 - 2023-07-17 18:43:46.524807
Process Id: 10 - 2023-07-17 18:43:47.546953
Process Id: 11 - 2023-07-17 18:43:48.555355
Process Id: 12 - 2023-07-17 18:43:49.563655
Process Id: 13 - 2023-07-17 18:43:50.585928
Process Id: 14 - 2023-07-17 18:43:51.598568
Process Id: 15 - 2023-07-17 18:43:52.621427
Process Id: 0 - 2023-07-17 18:43:53.631093
Process Id: 1 - 2023-07-17 18:43:54.642606
Process Id: 2 - 2023-07-17 18:43:55.656385
Process Id: 3 - 2023-07-17 18:43:56.669175
Process Id: 4 - 2023-07-17 18:43:57.683062
Process Id: 5 - 2023-07-17 18:43:58.704171
Process Id: 6 - 2023-07-17 18:43:59.718421
Process Id: 7 - 2023-07-17 18:44:00.733149
Process Id: 8 - 2023-07-17 18:44:01.745237
Process Id: 9 - 2023-07-17 18:44:02.757768
Process Id: 10 - 2023-07-17 18:44:03.771548
Process Id: 11 - 2023-07-17 18:44:04.783201
Process Id: 12 - 2023-07-17 18:44:05.798783
Process Id: 13 - 2023-07-17 18:44:06.806474
Process Id: 14 - 2023-07-17 18:44:07.820202
Process Id: 15 - 2023-07-17 18:44:08.829472

▼ serverlog.txt

```
Message Process ID  Time
REQUEST 0 2023-07-17 18:42:42.742468
GRANTED 0 2023-07-17 18:42:42.743490
REQUEST 1 2023-07-17 18:42:42.773992
REQUEST 2 2023-07-17 18:42:42.803767
REQUEST 3 2023-07-17 18:42:42.820139
REQUEST 4 2023-07-17 18:42:42.835348
REQUEST 5 2023-07-17 18:42:42.881928
REQUEST 6 2023-07-17 18:42:42.975630
REQUEST 7 2023-07-17 18:42:42.006052
REQUEST 8 2023-07-17 18:42:42.130723
REQUEST 9 2023-07-17 18:42:42.194584
REQUEST 10 2023-07-17 18:42:42.209169
REQUEST 11 2023-07-17 18:42:42.255511
REQUEST 12 2023-07-17 18:42:42.287141
REQUEST 13 2023-07-17 18:42:42.302206
REQUEST 14 2023-07-17 18:42:42.348281
REQUEST 15 2023-07-17 18:42:42.379376
RELEASED 0 2023-07-17 18:42:42.749844
GRANTED 1 2023-07-17 18:42:42.751005
REQUEST 0 2023-07-17 18:42:42.751653
RELEASED 1 2023-07-17 18:42:42.769898
GRANTED 2 2023-07-17 18:42:42.769898
REQUEST 1 2023-07-17 18:42:42.770404
RELEASED 2 2023-07-17 18:42:42.778250
GRANTED 3 2023-07-17 18:42:42.778250
REQUEST 2 2023-07-17 18:42:42.778756
RELEASED 3 2023-07-17 18:42:42.783858
GRANTED 4 2023-07-17 18:42:42.784364
REQUEST 3 2023-07-17 18:42:42.784364
RELEASED 4 2023-07-17 18:42:42.796621
GRANTED 5 2023-07-17 18:42:42.797131
REQUEST 4 2023-07-17 18:42:42.797661
RELEASED 5 2023-07-17 18:42:42.811001
GRANTED 6 2023-07-17 18:42:42.811001
REQUEST 5 2023-07-17 18:42:42.811506
RELEASED 6 2023-07-17 18:42:42.818506
GRANTED 7 2023-07-17 18:42:42.819071
REQUEST 6 2023-07-17 18:42:42.819575
RELEASED 7 2023-07-17 18:42:42.828308
GRANTED 8 2023-07-17 18:42:42.830295
REQUEST 7 2023-07-17 18:42:42.831611
RELEASED 8 2023-07-17 18:42:42.851689
GRANTED 9 2023-07-17 18:42:42.851689
REQUEST 8 2023-07-17 18:42:42.852193
RELEASED 9 2023-07-17 18:42:42.860649
GRANTED 10 2023-07-17 18:42:42.861229
REQUEST 9 2023-07-17 18:42:42.861762
RELEASED 10 2023-07-17 18:42:42.870114
GRANTED 11 2023-07-17 18:42:42.870114
REQUEST 10 2023-07-17 18:42:42.870622
```

RELEASED 11 2023-07-17 18:43:43.887551
GRANTED 12 2023-07-17 18:43:43.887551
REQUEST 11 2023-07-17 18:43:43.888055
RELEASED 12 2023-07-17 18:43:43.899697
GRANTED 13 2023-07-17 18:43:43.899697
REQUEST 12 2023-07-17 18:43:43.900309
RELEASED 13 2023-07-17 18:43:43.913259
GRANTED 14 2023-07-17 18:43:43.913259
REQUEST 13 2023-07-17 18:43:43.913764
RELEASED 14 2023-07-17 18:43:43.925445
GRANTED 15 2023-07-17 18:43:43.925445
REQUEST 14 2023-07-17 18:43:43.925950
RELEASED 15 2023-07-17 18:43:43.940825
GRANTED 0 2023-07-17 18:43:43.940825
REQUEST 15 2023-07-17 18:43:43.941331
RELEASED 0 2023-07-17 18:43:43.947628
GRANTED 1 2023-07-17 18:43:43.947628
REQUEST 0 2023-07-17 18:43:43.948132
RELEASED 1 2023-07-17 18:43:43.963555
GRANTED 2 2023-07-17 18:43:43.965187
REQUEST 1 2023-07-17 18:43:43.967330
RELEASED 2 2023-07-17 18:43:43.991320
GRANTED 3 2023-07-17 18:43:43.991320
REQUEST 2 2023-07-17 18:43:43.991893
RELEASED 3 2023-07-17 18:43:43.002833
GRANTED 4 2023-07-17 18:43:43.003228
REQUEST 3 2023-07-17 18:43:43.003734
RELEASED 4 2023-07-17 18:43:43.017557
GRANTED 5 2023-07-17 18:43:43.018069
REQUEST 4 2023-07-17 18:43:43.018629
RELEASED 5 2023-07-17 18:43:43.023466
GRANTED 6 2023-07-17 18:43:43.024023
REQUEST 5 2023-07-17 18:43:43.024531
RELEASED 6 2023-07-17 18:43:43.037266
GRANTED 7 2023-07-17 18:43:43.037772
REQUEST 6 2023-07-17 18:43:43.038296
RELEASED 7 2023-07-17 18:43:43.044695
GRANTED 8 2023-07-17 18:43:43.045212
REQUEST 7 2023-07-17 18:43:43.045765
RELEASED 8 2023-07-17 18:43:43.058397
GRANTED 9 2023-07-17 18:43:43.058397
REQUEST 8 2023-07-17 18:43:43.058904
RELEASED 9 2023-07-17 18:43:43.069350
GRANTED 10 2023-07-17 18:43:43.070377
REQUEST 9 2023-07-17 18:43:43.070882
RELEASED 10 2023-07-17 18:43:43.080196
GRANTED 11 2023-07-17 18:43:43.080702
REQUEST 10 2023-07-17 18:43:43.082477
RELEASED 11 2023-07-17 18:43:43.094180
GRANTED 12 2023-07-17 18:43:43.094180
REQUEST 11 2023-07-17 18:43:43.095693
RELEASED 12 2023-07-17 18:43:43.120624
GRANTED 13 2023-07-17 18:43:43.121130
REQUEST 12 2023-07-17 18:43:43.121189
RELEASED 13 2023-07-17 18:43:43.141693

GRANTED 14 2023-07-17 18:43:43.142199
REQUEST 13 2023-07-17 18:43:43.142199
RELEASED 14 2023-07-17 18:43:43.157446
GRANTED 15 2023-07-17 18:43:43.157970
REQUEST 14 2023-07-17 18:43:43.158493
RELEASED 15 2023-07-17 18:43:43.171802
GRANTED 0 2023-07-17 18:43:43.172753
REQUEST 15 2023-07-17 18:43:43.173284
RELEASED 0 2023-07-17 18:43:43.182697
GRANTED 1 2023-07-17 18:43:43.182697
REQUEST 0 2023-07-17 18:43:43.183200
RELEASED 1 2023-07-17 18:43:43.193522
GRANTED 2 2023-07-17 18:43:43.194119
REQUEST 1 2023-07-17 18:43:43.194626
RELEASED 2 2023-07-17 18:43:43.207131
GRANTED 3 2023-07-17 18:43:43.207131
REQUEST 2 2023-07-17 18:43:43.207637
RELEASED 3 2023-07-17 18:43:43.228270
GRANTED 4 2023-07-17 18:43:43.228857
REQUEST 3 2023-07-17 18:43:43.229922
RELEASED 4 2023-07-17 18:43:43.250641
GRANTED 5 2023-07-17 18:43:43.250641
REQUEST 4 2023-07-17 18:43:43.251146
RELEASED 5 2023-07-17 18:43:43.264124
GRANTED 6 2023-07-17 18:43:43.264124
REQUEST 5 2023-07-17 18:43:43.264971
RELEASED 6 2023-07-17 18:43:43.278277
GRANTED 7 2023-07-17 18:43:43.278785
REQUEST 6 2023-07-17 18:43:43.279661
RELEASED 7 2023-07-17 18:43:43.287896
GRANTED 8 2023-07-17 18:43:43.288319
REQUEST 7 2023-07-17 18:43:43.288895
RELEASED 8 2023-07-17 18:43:43.308610
GRANTED 9 2023-07-17 18:43:43.308610
REQUEST 8 2023-07-17 18:43:43.309116
RELEASED 9 2023-07-17 18:43:43.321144
GRANTED 10 2023-07-17 18:43:43.322110
REQUEST 9 2023-07-17 18:43:43.322636
RELEASED 10 2023-07-17 18:43:43.336593
GRANTED 11 2023-07-17 18:43:43.337951
REQUEST 10 2023-07-17 18:43:43.339357
RELEASED 11 2023-07-17 18:43:43.349837
GRANTED 12 2023-07-17 18:43:43.349837
REQUEST 11 2023-07-17 18:43:43.350344
RELEASED 12 2023-07-17 18:43:43.372499
GRANTED 13 2023-07-17 18:43:43.373006
REQUEST 12 2023-07-17 18:43:43.373534
RELEASED 13 2023-07-17 18:43:43.381199
GRANTED 14 2023-07-17 18:43:43.381199
REQUEST 13 2023-07-17 18:43:43.381703
RELEASED 14 2023-07-17 18:43:43.392086
GRANTED 15 2023-07-17 18:43:43.392534
REQUEST 14 2023-07-17 18:43:43.393038
RELEASED 15 2023-07-17 18:43:43.411210
GRANTED 0 2023-07-17 18:43:43.411210

REQUEST 15 2023-07-17 18:43:43.411715
RELEASED 0 2023-07-17 18:43:43.420656
GRANTED 1 2023-07-17 18:43:43.420656
REQUEST 0 2023-07-17 18:43:43.421161
RELEASED 1 2023-07-17 18:43:43.431310
GRANTED 2 2023-07-17 18:43:43.431816
REQUEST 1 2023-07-17 18:43:43.432664
RELEASED 2 2023-07-17 18:43:43.455133
GRANTED 3 2023-07-17 18:43:43.455639
REQUEST 2 2023-07-17 18:43:43.457133
RELEASED 3 2023-07-17 18:43:43.467212
GRANTED 4 2023-07-17 18:43:43.467719
REQUEST 3 2023-07-17 18:43:43.468252
RELEASED 4 2023-07-17 18:43:43.476975
GRANTED 5 2023-07-17 18:43:43.477280
REQUEST 4 2023-07-17 18:43:43.477785
RELEASED 5 2023-07-17 18:43:43.483272
GRANTED 6 2023-07-17 18:43:43.485380
REQUEST 5 2023-07-17 18:43:43.485907
RELEASED 6 2023-07-17 18:43:43.492861
GRANTED 7 2023-07-17 18:43:43.496070
REQUEST 6 2023-07-17 18:43:43.497309
RELEASED 7 2023-07-17 18:43:43.513608
GRANTED 8 2023-07-17 18:43:43.513608
REQUEST 7 2023-07-17 18:43:43.514113
RELEASED 8 2023-07-17 18:43:43.523784
GRANTED 9 2023-07-17 18:43:43.523784
REQUEST 8 2023-07-17 18:43:43.524289
RELEASED 9 2023-07-17 18:43:43.545428
GRANTED 10 2023-07-17 18:43:43.546387
REQUEST 9 2023-07-17 18:43:43.546448
RELEASED 10 2023-07-17 18:43:43.553287
GRANTED 11 2023-07-17 18:43:43.554218
REQUEST 10 2023-07-17 18:43:43.554737
RELEASED 11 2023-07-17 18:43:43.561975
GRANTED 12 2023-07-17 18:43:43.562481
REQUEST 11 2023-07-17 18:43:43.563558
RELEASED 12 2023-07-17 18:43:43.583754
GRANTED 13 2023-07-17 18:43:43.584745
REQUEST 12 2023-07-17 18:43:43.585250
RELEASED 13 2023-07-17 18:43:43.597545
GRANTED 14 2023-07-17 18:43:43.598050
REQUEST 13 2023-07-17 18:43:43.598050
RELEASED 14 2023-07-17 18:43:43.619283
GRANTED 15 2023-07-17 18:43:43.619792
REQUEST 14 2023-07-17 18:43:43.620336
RELEASED 15 2023-07-17 18:43:43.630035
GRANTED 0 2023-07-17 18:43:43.630035
REQUEST 15 2023-07-17 18:43:43.630542
RELEASED 0 2023-07-17 18:43:43.640443
GRANTED 1 2023-07-17 18:43:43.641410
RELEASED 1 2023-07-17 18:43:43.654894
GRANTED 2 2023-07-17 18:43:43.655324
RELEASED 2 2023-07-17 18:43:43.667477
GRANTED 3 2023-07-17 18:43:43.667982

```
RELEASED 3 2023-07-17 18:43:43.679987
GRANTED 4 2023-07-17 18:43:43.681176
RELEASED 4 2023-07-17 18:43:43.702744
GRANTED 5 2023-07-17 18:43:43.703142
RELEASED 5 2023-07-17 18:43:43.716846
GRANTED 6 2023-07-17 18:43:43.717790
RELEASED 6 2023-07-17 18:44:44.732119
GRANTED 7 2023-07-17 18:44:44.732119
RELEASED 7 2023-07-17 18:44:44.743305
GRANTED 8 2023-07-17 18:44:44.743676
RELEASED 8 2023-07-17 18:44:44.756205
GRANTED 9 2023-07-17 18:44:44.756671
RELEASED 9 2023-07-17 18:44:44.770070
GRANTED 10 2023-07-17 18:44:44.770520
RELEASED 10 2023-07-17 18:44:44.780153
GRANTED 11 2023-07-17 18:44:44.781556
RELEASED 11 2023-07-17 18:44:44.797028
GRANTED 12 2023-07-17 18:44:44.797594
RELEASED 12 2023-07-17 18:44:44.804867
GRANTED 13 2023-07-17 18:44:44.805286
RELEASED 13 2023-07-17 18:44:44.819095
GRANTED 14 2023-07-17 18:44:44.819095
RELEASED 14 2023-07-17 18:44:44.827329
GRANTED 15 2023-07-17 18:44:44.827836
RELEASED 15 2023-07-17 18:44:44.839392
```

▼ **n = 32, r = 5, e k = 1 - 161,411 segundos**

▼ results.txt (160 linhas 32x5)

```
Process Id: 0 - 2023-07-17 18:56:10.038783
Process Id: 1 - 2023-07-17 18:56:11.056682
Process Id: 2 - 2023-07-17 18:56:12.088287
Process Id: 3 - 2023-07-17 18:56:13.107715
Process Id: 4 - 2023-07-17 18:56:14.146912
Process Id: 5 - 2023-07-17 18:56:15.157726
Process Id: 6 - 2023-07-17 18:56:16.167931
Process Id: 7 - 2023-07-17 18:56:17.186543
Process Id: 9 - 2023-07-17 18:56:18.212761
Process Id: 8 - 2023-07-17 18:56:19.235153
Process Id: 10 - 2023-07-17 18:56:20.248969
Process Id: 11 - 2023-07-17 18:56:21.258126
Process Id: 12 - 2023-07-17 18:56:22.269272
Process Id: 13 - 2023-07-17 18:56:23.275456
Process Id: 14 - 2023-07-17 18:56:24.297428
Process Id: 15 - 2023-07-17 18:56:25.306535
Process Id: 16 - 2023-07-17 18:56:26.314565
Process Id: 17 - 2023-07-17 18:56:27.328317
Process Id: 18 - 2023-07-17 18:56:28.346669
Process Id: 19 - 2023-07-17 18:56:29.363262
Process Id: 20 - 2023-07-17 18:56:30.374780
Process Id: 0 - 2023-07-17 18:56:31.396233
```

Process Id: 21 - 2023-07-17 18:56:32.411997
Process Id: 22 - 2023-07-17 18:56:33.421327
Process Id: 23 - 2023-07-17 18:56:34.437879
Process Id: 24 - 2023-07-17 18:56:35.453487
Process Id: 25 - 2023-07-17 18:56:36.481418
Process Id: 26 - 2023-07-17 18:56:37.501328
Process Id: 27 - 2023-07-17 18:56:38.517714
Process Id: 28 - 2023-07-17 18:56:39.531355
Process Id: 29 - 2023-07-17 18:56:40.543832
Process Id: 30 - 2023-07-17 18:56:41.555859
Process Id: 31 - 2023-07-17 18:56:42.572734
Process Id: 1 - 2023-07-17 18:56:43.593228
Process Id: 2 - 2023-07-17 18:56:44.607484
Process Id: 3 - 2023-07-17 18:56:45.619487
Process Id: 4 - 2023-07-17 18:56:46.636529
Process Id: 5 - 2023-07-17 18:56:47.652726
Process Id: 6 - 2023-07-17 18:56:48.666155
Process Id: 7 - 2023-07-17 18:56:49.686226
Process Id: 9 - 2023-07-17 18:56:50.700375
Process Id: 8 - 2023-07-17 18:56:51.716272
Process Id: 10 - 2023-07-17 18:56:52.729925
Process Id: 11 - 2023-07-17 18:56:53.748619
Process Id: 12 - 2023-07-17 18:56:54.773988
Process Id: 13 - 2023-07-17 18:56:55.787739
Process Id: 14 - 2023-07-17 18:56:56.800289
Process Id: 15 - 2023-07-17 18:56:57.816614
Process Id: 16 - 2023-07-17 18:56:58.829000
Process Id: 17 - 2023-07-17 18:56:59.846321
Process Id: 18 - 2023-07-17 18:57:00.860812
Process Id: 19 - 2023-07-17 18:57:01.876375
Process Id: 20 - 2023-07-17 18:57:02.896499
Process Id: 0 - 2023-07-17 18:57:03.908212
Process Id: 21 - 2023-07-17 18:57:04.923974
Process Id: 22 - 2023-07-17 18:57:05.936693
Process Id: 23 - 2023-07-17 18:57:06.954997
Process Id: 24 - 2023-07-17 18:57:07.967970
Process Id: 25 - 2023-07-17 18:57:08.979326
Process Id: 26 - 2023-07-17 18:57:09.990138
Process Id: 27 - 2023-07-17 18:57:11.005141
Process Id: 28 - 2023-07-17 18:57:12.018379
Process Id: 29 - 2023-07-17 18:57:13.031533
Process Id: 30 - 2023-07-17 18:57:14.044606
Process Id: 31 - 2023-07-17 18:57:15.058644
Process Id: 1 - 2023-07-17 18:57:16.084417
Process Id: 2 - 2023-07-17 18:57:17.113772
Process Id: 3 - 2023-07-17 18:57:18.126234
Process Id: 4 - 2023-07-17 18:57:19.135184
Process Id: 5 - 2023-07-17 18:57:20.147144
Process Id: 6 - 2023-07-17 18:57:21.158162
Process Id: 7 - 2023-07-17 18:57:22.168152
Process Id: 9 - 2023-07-17 18:57:23.182490
Process Id: 8 - 2023-07-17 18:57:24.197136
Process Id: 10 - 2023-07-17 18:57:25.210335
Process Id: 11 - 2023-07-17 18:57:26.225855
Process Id: 12 - 2023-07-17 18:57:27.237524

Process Id: 13 - 2023-07-17 18:57:28.249766
Process Id: 14 - 2023-07-17 18:57:29.263266
Process Id: 15 - 2023-07-17 18:57:30.277690
Process Id: 16 - 2023-07-17 18:57:31.291963
Process Id: 17 - 2023-07-17 18:57:32.305276
Process Id: 18 - 2023-07-17 18:57:33.315524
Process Id: 19 - 2023-07-17 18:57:34.323003
Process Id: 20 - 2023-07-17 18:57:35.336627
Process Id: 0 - 2023-07-17 18:57:36.356484
Process Id: 21 - 2023-07-17 18:57:37.385161
Process Id: 22 - 2023-07-17 18:57:38.398263
Process Id: 23 - 2023-07-17 18:57:39.406985
Process Id: 24 - 2023-07-17 18:57:40.421259
Process Id: 25 - 2023-07-17 18:57:41.435098
Process Id: 26 - 2023-07-17 18:57:42.443911
Process Id: 27 - 2023-07-17 18:57:43.467829
Process Id: 28 - 2023-07-17 18:57:44.479376
Process Id: 29 - 2023-07-17 18:57:45.488029
Process Id: 30 - 2023-07-17 18:57:46.499431
Process Id: 31 - 2023-07-17 18:57:47.519793
Process Id: 1 - 2023-07-17 18:57:48.530526
Process Id: 2 - 2023-07-17 18:57:49.538394
Process Id: 3 - 2023-07-17 18:57:50.549724
Process Id: 4 - 2023-07-17 18:57:51.561037
Process Id: 5 - 2023-07-17 18:57:52.572130
Process Id: 6 - 2023-07-17 18:57:53.587069
Process Id: 7 - 2023-07-17 18:57:54.600286
Process Id: 9 - 2023-07-17 18:57:55.611339
Process Id: 8 - 2023-07-17 18:57:56.625843
Process Id: 10 - 2023-07-17 18:57:57.637054
Process Id: 11 - 2023-07-17 18:57:58.650948
Process Id: 12 - 2023-07-17 18:57:59.663017
Process Id: 13 - 2023-07-17 18:58:00.678341
Process Id: 14 - 2023-07-17 18:58:01.691369
Process Id: 15 - 2023-07-17 18:58:02.702688
Process Id: 16 - 2023-07-17 18:58:03.727270
Process Id: 17 - 2023-07-17 18:58:04.740250
Process Id: 18 - 2023-07-17 18:58:05.754873
Process Id: 19 - 2023-07-17 18:58:06.763097
Process Id: 20 - 2023-07-17 18:58:07.772694
Process Id: 0 - 2023-07-17 18:58:08.791752
Process Id: 21 - 2023-07-17 18:58:09.814421
Process Id: 22 - 2023-07-17 18:58:10.828660
Process Id: 23 - 2023-07-17 18:58:11.854483
Process Id: 24 - 2023-07-17 18:58:12.881030
Process Id: 25 - 2023-07-17 18:58:13.903877
Process Id: 26 - 2023-07-17 18:58:14.916143
Process Id: 27 - 2023-07-17 18:58:15.930964
Process Id: 28 - 2023-07-17 18:58:16.938949
Process Id: 29 - 2023-07-17 18:58:17.954213
Process Id: 30 - 2023-07-17 18:58:18.966406
Process Id: 31 - 2023-07-17 18:58:19.979084
Process Id: 1 - 2023-07-17 18:58:20.996161
Process Id: 2 - 2023-07-17 18:58:22.009356
Process Id: 3 - 2023-07-17 18:58:23.028730

```
Process Id: 4 - 2023-07-17 18:58:24.040995
Process Id: 5 - 2023-07-17 18:58:25.050776
Process Id: 6 - 2023-07-17 18:58:26.070557
Process Id: 7 - 2023-07-17 18:58:27.092549
Process Id: 9 - 2023-07-17 18:58:28.106439
Process Id: 8 - 2023-07-17 18:58:29.118334
Process Id: 10 - 2023-07-17 18:58:30.139015
Process Id: 11 - 2023-07-17 18:58:31.159642
Process Id: 12 - 2023-07-17 18:58:32.179723
Process Id: 13 - 2023-07-17 18:58:33.201357
Process Id: 14 - 2023-07-17 18:58:34.215886
Process Id: 15 - 2023-07-17 18:58:35.229965
Process Id: 16 - 2023-07-17 18:58:36.241219
Process Id: 17 - 2023-07-17 18:58:37.257254
Process Id: 18 - 2023-07-17 18:58:38.270277
Process Id: 19 - 2023-07-17 18:58:39.285216
Process Id: 20 - 2023-07-17 18:58:40.296317
Process Id: 21 - 2023-07-17 18:58:41.310202
Process Id: 22 - 2023-07-17 18:58:42.323181
Process Id: 23 - 2023-07-17 18:58:43.340252
Process Id: 24 - 2023-07-17 18:58:44.352484
Process Id: 25 - 2023-07-17 18:58:45.367938
Process Id: 26 - 2023-07-17 18:58:46.383214
Process Id: 27 - 2023-07-17 18:58:47.398376
Process Id: 28 - 2023-07-17 18:58:48.413765
Process Id: 29 - 2023-07-17 18:58:49.430458
Process Id: 30 - 2023-07-17 18:58:50.438862
Process Id: 31 - 2023-07-17 18:58:51.449587
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 18:42:42.742468
GRANTED 0 2023-07-17 18:42:42.743490
REQUEST 1 2023-07-17 18:42:42.773992
REQUEST 2 2023-07-17 18:42:42.803767
REQUEST 3 2023-07-17 18:42:42.820139
REQUEST 4 2023-07-17 18:42:42.835348
REQUEST 5 2023-07-17 18:42:42.881928
REQUEST 6 2023-07-17 18:42:42.975630
REQUEST 7 2023-07-17 18:42:42.006052
REQUEST 8 2023-07-17 18:42:42.130723
REQUEST 9 2023-07-17 18:42:42.194584
REQUEST 10 2023-07-17 18:42:42.209169
REQUEST 11 2023-07-17 18:42:42.255511
REQUEST 12 2023-07-17 18:42:42.287141
REQUEST 13 2023-07-17 18:42:42.302206
REQUEST 14 2023-07-17 18:42:42.348281
REQUEST 15 2023-07-17 18:42:42.379376
RELEASED 0 2023-07-17 18:42:42.749844
GRANTED 1 2023-07-17 18:42:42.751005
REQUEST 0 2023-07-17 18:42:42.751653
```

RELEASED 1 2023-07-17 18:42:42.769898
GRANTED 2 2023-07-17 18:42:42.769898
REQUEST 1 2023-07-17 18:42:42.770404
RELEASED 2 2023-07-17 18:42:42.778250
GRANTED 3 2023-07-17 18:42:42.778250
REQUEST 2 2023-07-17 18:42:42.778756
RELEASED 3 2023-07-17 18:42:42.783858
GRANTED 4 2023-07-17 18:42:42.784364
REQUEST 3 2023-07-17 18:42:42.784364
RELEASED 4 2023-07-17 18:42:42.796621
GRANTED 5 2023-07-17 18:42:42.797131
REQUEST 4 2023-07-17 18:42:42.797661
RELEASED 5 2023-07-17 18:42:42.811001
GRANTED 6 2023-07-17 18:42:42.811001
REQUEST 5 2023-07-17 18:42:42.811506
RELEASED 6 2023-07-17 18:42:42.818506
GRANTED 7 2023-07-17 18:42:42.819071
REQUEST 6 2023-07-17 18:42:42.819575
RELEASED 7 2023-07-17 18:42:42.828308
GRANTED 8 2023-07-17 18:42:42.830295
REQUEST 7 2023-07-17 18:42:42.831611
RELEASED 8 2023-07-17 18:42:42.851689
GRANTED 9 2023-07-17 18:42:42.851689
REQUEST 8 2023-07-17 18:42:42.852193
RELEASED 9 2023-07-17 18:42:42.860649
GRANTED 10 2023-07-17 18:42:42.861229
REQUEST 9 2023-07-17 18:42:42.861762
RELEASED 10 2023-07-17 18:42:42.870114
GRANTED 11 2023-07-17 18:42:42.870114
REQUEST 10 2023-07-17 18:42:42.870622
RELEASED 11 2023-07-17 18:43:43.887551
GRANTED 12 2023-07-17 18:43:43.887551
REQUEST 11 2023-07-17 18:43:43.888055
RELEASED 12 2023-07-17 18:43:43.899697
GRANTED 13 2023-07-17 18:43:43.899697
REQUEST 12 2023-07-17 18:43:43.900309
RELEASED 13 2023-07-17 18:43:43.913259
GRANTED 14 2023-07-17 18:43:43.913259
REQUEST 13 2023-07-17 18:43:43.913764
RELEASED 14 2023-07-17 18:43:43.925445
GRANTED 15 2023-07-17 18:43:43.925445
REQUEST 14 2023-07-17 18:43:43.925950
RELEASED 15 2023-07-17 18:43:43.940825
GRANTED 0 2023-07-17 18:43:43.940825
REQUEST 15 2023-07-17 18:43:43.941331
RELEASED 0 2023-07-17 18:43:43.947628
GRANTED 1 2023-07-17 18:43:43.947628
REQUEST 0 2023-07-17 18:43:43.948132
RELEASED 1 2023-07-17 18:43:43.963555
GRANTED 2 2023-07-17 18:43:43.965187
REQUEST 1 2023-07-17 18:43:43.967330
RELEASED 2 2023-07-17 18:43:43.991320
GRANTED 3 2023-07-17 18:43:43.991320
REQUEST 2 2023-07-17 18:43:43.991893
RELEASED 3 2023-07-17 18:43:43.002833

GRANTED 4 2023-07-17 18:43:43.003228
REQUEST 3 2023-07-17 18:43:43.003734
RELEASED 4 2023-07-17 18:43:43.017557
GRANTED 5 2023-07-17 18:43:43.018069
REQUEST 4 2023-07-17 18:43:43.018629
RELEASED 5 2023-07-17 18:43:43.023466
GRANTED 6 2023-07-17 18:43:43.024023
REQUEST 5 2023-07-17 18:43:43.024531
RELEASED 6 2023-07-17 18:43:43.037266
GRANTED 7 2023-07-17 18:43:43.037772
REQUEST 6 2023-07-17 18:43:43.038296
RELEASED 7 2023-07-17 18:43:43.044695
GRANTED 8 2023-07-17 18:43:43.045212
REQUEST 7 2023-07-17 18:43:43.045765
RELEASED 8 2023-07-17 18:43:43.058397
GRANTED 9 2023-07-17 18:43:43.058397
REQUEST 8 2023-07-17 18:43:43.058904
RELEASED 9 2023-07-17 18:43:43.069350
GRANTED 10 2023-07-17 18:43:43.070377
REQUEST 9 2023-07-17 18:43:43.070882
RELEASED 10 2023-07-17 18:43:43.080196
GRANTED 11 2023-07-17 18:43:43.080702
REQUEST 10 2023-07-17 18:43:43.082477
RELEASED 11 2023-07-17 18:43:43.094180
GRANTED 12 2023-07-17 18:43:43.094180
REQUEST 11 2023-07-17 18:43:43.095693
RELEASED 12 2023-07-17 18:43:43.120624
GRANTED 13 2023-07-17 18:43:43.121130
REQUEST 12 2023-07-17 18:43:43.121189
RELEASED 13 2023-07-17 18:43:43.141693
GRANTED 14 2023-07-17 18:43:43.142199
REQUEST 13 2023-07-17 18:43:43.142199
RELEASED 14 2023-07-17 18:43:43.157446
GRANTED 15 2023-07-17 18:43:43.157970
REQUEST 14 2023-07-17 18:43:43.158493
RELEASED 15 2023-07-17 18:43:43.171802
GRANTED 0 2023-07-17 18:43:43.172753
REQUEST 15 2023-07-17 18:43:43.173284
RELEASED 0 2023-07-17 18:43:43.182697
GRANTED 1 2023-07-17 18:43:43.182697
REQUEST 0 2023-07-17 18:43:43.183200
RELEASED 1 2023-07-17 18:43:43.193522
GRANTED 2 2023-07-17 18:43:43.194119
REQUEST 1 2023-07-17 18:43:43.194626
RELEASED 2 2023-07-17 18:43:43.207131
GRANTED 3 2023-07-17 18:43:43.207131
REQUEST 2 2023-07-17 18:43:43.207637
RELEASED 3 2023-07-17 18:43:43.228270
GRANTED 4 2023-07-17 18:43:43.228857
REQUEST 3 2023-07-17 18:43:43.229922
RELEASED 4 2023-07-17 18:43:43.250641
GRANTED 5 2023-07-17 18:43:43.250641
REQUEST 4 2023-07-17 18:43:43.251146
RELEASED 5 2023-07-17 18:43:43.264124
GRANTED 6 2023-07-17 18:43:43.264124

REQUEST 5 2023-07-17 18:43:43.264971
RELEASED 6 2023-07-17 18:43:43.278277
GRANTED 7 2023-07-17 18:43:43.278785
REQUEST 6 2023-07-17 18:43:43.279661
RELEASED 7 2023-07-17 18:43:43.287896
GRANTED 8 2023-07-17 18:43:43.288319
REQUEST 7 2023-07-17 18:43:43.288895
RELEASED 8 2023-07-17 18:43:43.308610
GRANTED 9 2023-07-17 18:43:43.308610
REQUEST 8 2023-07-17 18:43:43.309116
RELEASED 9 2023-07-17 18:43:43.321144
GRANTED 10 2023-07-17 18:43:43.322110
REQUEST 9 2023-07-17 18:43:43.322636
RELEASED 10 2023-07-17 18:43:43.336593
GRANTED 11 2023-07-17 18:43:43.337951
REQUEST 10 2023-07-17 18:43:43.339357
RELEASED 11 2023-07-17 18:43:43.349837
GRANTED 12 2023-07-17 18:43:43.349837
REQUEST 11 2023-07-17 18:43:43.350344
RELEASED 12 2023-07-17 18:43:43.372499
GRANTED 13 2023-07-17 18:43:43.373006
REQUEST 12 2023-07-17 18:43:43.373534
RELEASED 13 2023-07-17 18:43:43.381199
GRANTED 14 2023-07-17 18:43:43.381199
REQUEST 13 2023-07-17 18:43:43.381703
RELEASED 14 2023-07-17 18:43:43.392086
GRANTED 15 2023-07-17 18:43:43.392534
REQUEST 14 2023-07-17 18:43:43.393038
RELEASED 15 2023-07-17 18:43:43.411210
GRANTED 0 2023-07-17 18:43:43.411210
REQUEST 15 2023-07-17 18:43:43.411715
RELEASED 0 2023-07-17 18:43:43.420656
GRANTED 1 2023-07-17 18:43:43.420656
REQUEST 0 2023-07-17 18:43:43.421161
RELEASED 1 2023-07-17 18:43:43.431310
GRANTED 2 2023-07-17 18:43:43.431816
REQUEST 1 2023-07-17 18:43:43.432664
RELEASED 2 2023-07-17 18:43:43.455133
GRANTED 3 2023-07-17 18:43:43.455639
REQUEST 2 2023-07-17 18:43:43.457133
RELEASED 3 2023-07-17 18:43:43.467212
GRANTED 4 2023-07-17 18:43:43.467719
REQUEST 3 2023-07-17 18:43:43.468252
RELEASED 4 2023-07-17 18:43:43.476975
GRANTED 5 2023-07-17 18:43:43.477280
REQUEST 4 2023-07-17 18:43:43.477785
RELEASED 5 2023-07-17 18:43:43.483272
GRANTED 6 2023-07-17 18:43:43.485380
REQUEST 5 2023-07-17 18:43:43.485907
RELEASED 6 2023-07-17 18:43:43.492861
GRANTED 7 2023-07-17 18:43:43.496070
REQUEST 6 2023-07-17 18:43:43.497309
RELEASED 7 2023-07-17 18:43:43.513608
GRANTED 8 2023-07-17 18:43:43.513608
REQUEST 7 2023-07-17 18:43:43.514113

RELEASED 8 2023-07-17 18:43:43.523784
GRANTED 9 2023-07-17 18:43:43.523784
REQUEST 8 2023-07-17 18:43:43.524289
RELEASED 9 2023-07-17 18:43:43.545428
GRANTED 10 2023-07-17 18:43:43.546387
REQUEST 9 2023-07-17 18:43:43.546448
RELEASED 10 2023-07-17 18:43:43.553287
GRANTED 11 2023-07-17 18:43:43.554218
REQUEST 10 2023-07-17 18:43:43.554737
RELEASED 11 2023-07-17 18:43:43.561975
GRANTED 12 2023-07-17 18:43:43.562481
REQUEST 11 2023-07-17 18:43:43.563558
RELEASED 12 2023-07-17 18:43:43.583754
GRANTED 13 2023-07-17 18:43:43.584745
REQUEST 12 2023-07-17 18:43:43.585250
RELEASED 13 2023-07-17 18:43:43.597545
GRANTED 14 2023-07-17 18:43:43.598050
REQUEST 13 2023-07-17 18:43:43.598050
RELEASED 14 2023-07-17 18:43:43.619283
GRANTED 15 2023-07-17 18:43:43.619792
REQUEST 14 2023-07-17 18:43:43.620336
RELEASED 15 2023-07-17 18:43:43.630035
GRANTED 0 2023-07-17 18:43:43.630035
REQUEST 15 2023-07-17 18:43:43.630542
RELEASED 0 2023-07-17 18:43:43.640443
GRANTED 1 2023-07-17 18:43:43.641410
RELEASED 1 2023-07-17 18:43:43.654894
GRANTED 2 2023-07-17 18:43:43.655324
RELEASED 2 2023-07-17 18:43:43.667477
GRANTED 3 2023-07-17 18:43:43.667982
RELEASED 3 2023-07-17 18:43:43.679987
GRANTED 4 2023-07-17 18:43:43.681176
RELEASED 4 2023-07-17 18:43:43.702744
GRANTED 5 2023-07-17 18:43:43.703142
RELEASED 5 2023-07-17 18:43:43.716846
GRANTED 6 2023-07-17 18:43:43.717790
RELEASED 6 2023-07-17 18:44:44.732119
GRANTED 7 2023-07-17 18:44:44.732119
RELEASED 7 2023-07-17 18:44:44.743305
GRANTED 8 2023-07-17 18:44:44.743676
RELEASED 8 2023-07-17 18:44:44.756205
GRANTED 9 2023-07-17 18:44:44.756671
RELEASED 9 2023-07-17 18:44:44.770070
GRANTED 10 2023-07-17 18:44:44.770520
RELEASED 10 2023-07-17 18:44:44.780153
GRANTED 11 2023-07-17 18:44:44.781556
RELEASED 11 2023-07-17 18:44:44.797028
GRANTED 12 2023-07-17 18:44:44.797594
RELEASED 12 2023-07-17 18:44:44.804867
GRANTED 13 2023-07-17 18:44:44.805286
RELEASED 13 2023-07-17 18:44:44.819095
GRANTED 14 2023-07-17 18:44:44.819095
RELEASED 14 2023-07-17 18:44:44.827329
GRANTED 15 2023-07-17 18:44:44.827836
RELEASED 15 2023-07-17 18:44:44.839392

REQUEST 1 2023-07-17 18:45:45.743809
GRANTED 1 2023-07-17 18:45:45.746340
REQUEST 2 2023-07-17 18:45:45.747713
REQUEST 0 2023-07-17 18:45:45.748722
REQUEST 3 2023-07-17 18:45:45.805894
REQUEST 4 2023-07-17 18:45:45.853402
REQUEST 6 2023-07-17 18:45:45.914518
REQUEST 5 2023-07-17 18:45:45.914518
REQUEST 7 2023-07-17 18:45:45.117040
REQUEST 8 2023-07-17 18:45:45.241587
REQUEST 9 2023-07-17 18:45:45.288284
REQUEST 10 2023-07-17 18:45:45.398525
REQUEST 11 2023-07-17 18:45:45.431435
REQUEST 12 2023-07-17 18:45:45.507885
REQUEST 13 2023-07-17 18:45:45.587239
REQUEST 14 2023-07-17 18:45:45.697903
RELEASED 1 2023-07-17 18:45:45.755740
GRANTED 2 2023-07-17 18:45:45.757018
REQUEST 1 2023-07-17 18:45:45.757551
REQUEST 15 2023-07-17 18:45:45.758397
REQUEST 16 2023-07-17 18:45:45.820571
REQUEST 17 2023-07-17 18:45:45.881090
REQUEST 19 2023-07-17 18:45:45.051166
REQUEST 18 2023-07-17 18:45:45.051673
REQUEST 20 2023-07-17 18:45:45.272804
REQUEST 21 2023-07-17 18:45:45.318275
REQUEST 22 2023-07-17 18:45:45.333796
REQUEST 23 2023-07-17 18:45:45.379949
REQUEST 24 2023-07-17 18:45:45.441368
REQUEST 25 2023-07-17 18:45:45.534000
REQUEST 26 2023-07-17 18:45:45.579654
REQUEST 27 2023-07-17 18:45:45.717017
REQUEST 28 2023-07-17 18:45:45.717017
RELEASED 2 2023-07-17 18:45:45.777657
GRANTED 0 2023-07-17 18:45:45.778656
REQUEST 2 2023-07-17 18:45:45.788064
REQUEST 29 2023-07-17 18:45:45.810862
REQUEST 30 2023-07-17 18:45:45.842428
REQUEST 31 2023-07-17 18:45:45.904205
RELEASED 0 2023-07-17 18:45:45.802978
GRANTED 3 2023-07-17 18:45:45.804092
REQUEST 0 2023-07-17 18:45:45.805171
RELEASED 3 2023-07-17 18:45:45.820593
GRANTED 4 2023-07-17 18:45:45.820593
REQUEST 3 2023-07-17 18:45:45.821170
RELEASED 4 2023-07-17 18:45:45.835136
GRANTED 6 2023-07-17 18:45:45.835645
REQUEST 4 2023-07-17 18:45:45.836951
RELEASED 6 2023-07-17 18:45:45.853356
GRANTED 5 2023-07-17 18:45:45.854357
REQUEST 6 2023-07-17 18:45:45.854864
RELEASED 5 2023-07-17 18:45:45.874432
GRANTED 7 2023-07-17 18:45:45.876445
REQUEST 5 2023-07-17 18:45:45.877444
RELEASED 7 2023-07-17 18:45:45.889884

GRANTED 8 2023-07-17 18:45:45.891710
REQUEST 7 2023-07-17 18:45:45.893156
RELEASED 8 2023-07-17 18:45:45.932572
GRANTED 9 2023-07-17 18:45:45.933048
REQUEST 8 2023-07-17 18:45:45.933553
RELEASED 9 2023-07-17 18:45:45.954576
GRANTED 10 2023-07-17 18:45:45.955553
REQUEST 9 2023-07-17 18:45:45.956798
RELEASED 10 2023-07-17 18:45:45.969346
GRANTED 11 2023-07-17 18:45:45.969853
REQUEST 10 2023-07-17 18:45:45.970383
RELEASED 11 2023-07-17 18:45:45.982831
GRANTED 12 2023-07-17 18:45:45.983345
REQUEST 11 2023-07-17 18:45:45.983849
RELEASED 12 2023-07-17 18:45:45.992647
GRANTED 13 2023-07-17 18:45:45.993751
REQUEST 12 2023-07-17 18:45:45.994761
RELEASED 13 2023-07-17 18:45:45.016900
GRANTED 14 2023-07-17 18:45:45.017466
REQUEST 13 2023-07-17 18:45:45.017466
RELEASED 14 2023-07-17 18:45:45.030239
GRANTED 1 2023-07-17 18:45:45.030745
REQUEST 14 2023-07-17 18:45:45.031498
RELEASED 1 2023-07-17 18:45:45.053732
GRANTED 15 2023-07-17 18:45:45.054240
REQUEST 1 2023-07-17 18:45:45.055308
RELEASED 15 2023-07-17 18:45:45.062667
GRANTED 16 2023-07-17 18:45:45.063226
REQUEST 15 2023-07-17 18:45:45.063732
RELEASED 16 2023-07-17 18:45:45.072283
GRANTED 17 2023-07-17 18:45:45.072799
REQUEST 16 2023-07-17 18:45:45.073431
RELEASED 17 2023-07-17 18:45:45.095421
GRANTED 19 2023-07-17 18:45:45.095931
REQUEST 17 2023-07-17 18:45:45.096543
RELEASED 19 2023-07-17 18:45:45.101724
GRANTED 18 2023-07-17 18:45:45.102781
REQUEST 19 2023-07-17 18:45:45.103339
RELEASED 18 2023-07-17 18:45:45.124490
GRANTED 20 2023-07-17 18:45:45.124817
REQUEST 18 2023-07-17 18:45:45.125322
RELEASED 20 2023-07-17 18:45:45.139260
GRANTED 21 2023-07-17 18:45:45.140422
REQUEST 20 2023-07-17 18:45:45.141367
RELEASED 21 2023-07-17 18:45:45.151068
GRANTED 22 2023-07-17 18:45:45.151540
REQUEST 21 2023-07-17 18:45:45.152050
RELEASED 22 2023-07-17 18:45:45.161794
GRANTED 23 2023-07-17 18:45:45.163202
REQUEST 22 2023-07-17 18:45:45.165992
RELEASED 23 2023-07-17 18:45:45.200103
GRANTED 24 2023-07-17 18:45:45.200103
REQUEST 23 2023-07-17 18:45:45.200609
RELEASED 24 2023-07-17 18:45:45.210232
GRANTED 25 2023-07-17 18:45:45.210786

REQUEST 24 2023-07-17 18:45:45.210786
RELEASED 25 2023-07-17 18:45:45.221433
GRANTED 26 2023-07-17 18:45:45.222007
REQUEST 25 2023-07-17 18:45:45.222007
RELEASED 26 2023-07-17 18:45:45.239910
GRANTED 27 2023-07-17 18:45:45.241050
REQUEST 26 2023-07-17 18:45:45.242492
RELEASED 27 2023-07-17 18:45:45.261755
GRANTED 28 2023-07-17 18:45:45.262260
REQUEST 27 2023-07-17 18:45:45.263535
RELEASED 28 2023-07-17 18:45:45.271862
GRANTED 2 2023-07-17 18:45:45.271862
REQUEST 28 2023-07-17 18:45:45.272419
RELEASED 2 2023-07-17 18:45:45.287757
GRANTED 29 2023-07-17 18:45:45.287757
REQUEST 2 2023-07-17 18:45:45.288866
RELEASED 29 2023-07-17 18:45:45.298295
GRANTED 30 2023-07-17 18:45:45.298799
REQUEST 29 2023-07-17 18:45:45.298799
RELEASED 30 2023-07-17 18:45:45.312294
GRANTED 31 2023-07-17 18:45:45.312711
REQUEST 30 2023-07-17 18:45:45.313216
RELEASED 31 2023-07-17 18:45:45.324501
GRANTED 0 2023-07-17 18:45:45.324918
REQUEST 31 2023-07-17 18:45:45.325515
RELEASED 0 2023-07-17 18:45:45.341870
GRANTED 3 2023-07-17 18:45:45.342279
REQUEST 0 2023-07-17 18:45:45.342784
RELEASED 3 2023-07-17 18:45:45.355184
GRANTED 4 2023-07-17 18:45:45.355790
REQUEST 3 2023-07-17 18:45:45.356373
RELEASED 4 2023-07-17 18:45:45.369295
GRANTED 6 2023-07-17 18:45:45.369801
REQUEST 4 2023-07-17 18:45:45.370328
RELEASED 6 2023-07-17 18:45:45.382435
GRANTED 5 2023-07-17 18:45:45.384996
REQUEST 6 2023-07-17 18:45:45.386344
RELEASED 5 2023-07-17 18:45:45.400685
GRANTED 7 2023-07-17 18:45:45.400685
REQUEST 5 2023-07-17 18:45:45.401191
RELEASED 7 2023-07-17 18:45:45.413003
GRANTED 8 2023-07-17 18:45:45.413003
REQUEST 7 2023-07-17 18:45:45.413508
RELEASED 8 2023-07-17 18:45:45.426088
GRANTED 9 2023-07-17 18:45:45.426592
REQUEST 8 2023-07-17 18:45:45.426592
RELEASED 9 2023-07-17 18:45:45.439706
GRANTED 10 2023-07-17 18:45:45.439706
REQUEST 9 2023-07-17 18:45:45.440210
RELEASED 10 2023-07-17 18:46:46.452723
GRANTED 11 2023-07-17 18:46:46.453726
REQUEST 10 2023-07-17 18:46:46.454741
RELEASED 11 2023-07-17 18:46:46.467785
GRANTED 12 2023-07-17 18:46:46.468171
REQUEST 11 2023-07-17 18:46:46.468678

RELEASED 12 2023-07-17 18:46:46.477857
GRANTED 13 2023-07-17 18:46:46.477857
REQUEST 12 2023-07-17 18:46:46.478361
RELEASED 13 2023-07-17 18:46:46.485783
GRANTED 14 2023-07-17 18:46:46.486864
REQUEST 13 2023-07-17 18:46:46.487359
RELEASED 14 2023-07-17 18:46:46.499381
GRANTED 1 2023-07-17 18:46:46.499381
REQUEST 14 2023-07-17 18:46:46.499885
RELEASED 1 2023-07-17 18:46:46.508288
GRANTED 15 2023-07-17 18:46:46.508814
REQUEST 1 2023-07-17 18:46:46.509981
RELEASED 15 2023-07-17 18:46:46.532325
GRANTED 16 2023-07-17 18:46:46.532832
REQUEST 15 2023-07-17 18:46:46.533361
RELEASED 16 2023-07-17 18:46:46.544852
GRANTED 17 2023-07-17 18:46:46.545304
REQUEST 16 2023-07-17 18:46:46.545862
RELEASED 17 2023-07-17 18:46:46.553564
GRANTED 19 2023-07-17 18:46:46.554563
REQUEST 17 2023-07-17 18:46:46.555071
RELEASED 19 2023-07-17 18:46:46.569691
GRANTED 18 2023-07-17 18:46:46.570871
REQUEST 19 2023-07-17 18:46:46.572031
RELEASED 18 2023-07-17 18:46:46.584888
GRANTED 20 2023-07-17 18:46:46.585454
REQUEST 18 2023-07-17 18:46:46.586020
RELEASED 20 2023-07-17 18:46:46.598756
GRANTED 21 2023-07-17 18:46:46.598756
REQUEST 20 2023-07-17 18:46:46.599316
RELEASED 21 2023-07-17 18:46:46.609523
GRANTED 22 2023-07-17 18:46:46.609523
REQUEST 21 2023-07-17 18:46:46.610029
RELEASED 22 2023-07-17 18:46:46.620801
GRANTED 23 2023-07-17 18:46:46.620801
REQUEST 22 2023-07-17 18:46:46.621306
RELEASED 23 2023-07-17 18:46:46.629325
GRANTED 24 2023-07-17 18:46:46.630282
REQUEST 23 2023-07-17 18:46:46.631370
RELEASED 24 2023-07-17 18:46:46.638795
GRANTED 25 2023-07-17 18:46:46.640122
REQUEST 24 2023-07-17 18:46:46.641431
RELEASED 25 2023-07-17 18:46:46.661339
GRANTED 26 2023-07-17 18:46:46.661844
REQUEST 25 2023-07-17 18:46:46.662919
RELEASED 26 2023-07-17 18:46:46.676061
GRANTED 27 2023-07-17 18:46:46.676566
REQUEST 26 2023-07-17 18:46:46.676626
RELEASED 27 2023-07-17 18:46:46.689870
GRANTED 28 2023-07-17 18:46:46.691301
REQUEST 27 2023-07-17 18:46:46.692809
RELEASED 28 2023-07-17 18:46:46.718095
GRANTED 2 2023-07-17 18:46:46.718095
REQUEST 28 2023-07-17 18:46:46.718600
RELEASED 2 2023-07-17 18:46:46.727252

GRANTED 29 2023-07-17 18:46:46.727793
REQUEST 2 2023-07-17 18:46:46.728324
RELEASED 29 2023-07-17 18:46:46.738764
GRANTED 30 2023-07-17 18:46:46.739176
REQUEST 29 2023-07-17 18:46:46.739681
RELEASED 30 2023-07-17 18:46:46.750265
GRANTED 31 2023-07-17 18:46:46.750585
REQUEST 30 2023-07-17 18:46:46.751089
RELEASED 31 2023-07-17 18:46:46.766353
GRANTED 0 2023-07-17 18:46:46.766353
REQUEST 31 2023-07-17 18:46:46.767056
RELEASED 0 2023-07-17 18:46:46.776422
GRANTED 3 2023-07-17 18:46:46.777389
REQUEST 0 2023-07-17 18:46:46.777389
RELEASED 3 2023-07-17 18:46:46.787824
GRANTED 4 2023-07-17 18:46:46.788331
REQUEST 3 2023-07-17 18:46:46.788331
RELEASED 4 2023-07-17 18:46:46.800886
GRANTED 6 2023-07-17 18:46:46.801469
REQUEST 4 2023-07-17 18:46:46.802051
RELEASED 6 2023-07-17 18:46:46.813577
GRANTED 5 2023-07-17 18:46:46.813577
REQUEST 6 2023-07-17 18:46:46.814571
RELEASED 5 2023-07-17 18:46:46.824881
GRANTED 7 2023-07-17 18:46:46.825387
REQUEST 5 2023-07-17 18:46:46.825535
RELEASED 7 2023-07-17 18:46:46.837395
GRANTED 8 2023-07-17 18:46:46.837967
REQUEST 7 2023-07-17 18:46:46.838496
RELEASED 8 2023-07-17 18:46:46.847447
GRANTED 9 2023-07-17 18:46:46.847950
REQUEST 8 2023-07-17 18:46:46.848478
RELEASED 9 2023-07-17 18:46:46.856089
GRANTED 10 2023-07-17 18:46:46.856595
REQUEST 9 2023-07-17 18:46:46.857200
RELEASED 10 2023-07-17 18:46:46.868330
GRANTED 11 2023-07-17 18:46:46.868835
REQUEST 10 2023-07-17 18:46:46.869360
RELEASED 11 2023-07-17 18:46:46.878208
GRANTED 12 2023-07-17 18:46:46.878208
REQUEST 11 2023-07-17 18:46:46.878713
RELEASED 12 2023-07-17 18:46:46.888145
GRANTED 13 2023-07-17 18:46:46.888650
REQUEST 12 2023-07-17 18:46:46.889180
RELEASED 13 2023-07-17 18:46:46.909961
GRANTED 14 2023-07-17 18:46:46.910466
REQUEST 13 2023-07-17 18:46:46.910466
RELEASED 14 2023-07-17 18:46:46.922289
GRANTED 1 2023-07-17 18:46:46.923355
REQUEST 14 2023-07-17 18:46:46.924515
RELEASED 1 2023-07-17 18:46:46.934985
GRANTED 15 2023-07-17 18:46:46.935490
REQUEST 1 2023-07-17 18:46:46.936124
RELEASED 15 2023-07-17 18:46:46.949403
GRANTED 16 2023-07-17 18:46:46.949934

REQUEST 15 2023-07-17 18:46:46.950439
RELEASED 16 2023-07-17 18:46:46.971455
GRANTED 17 2023-07-17 18:46:46.973707
REQUEST 16 2023-07-17 18:46:46.974921
RELEASED 17 2023-07-17 18:46:46.999012
GRANTED 19 2023-07-17 18:46:46.999012
REQUEST 17 2023-07-17 18:46:46.999519
RELEASED 19 2023-07-17 18:46:46.006976
GRANTED 18 2023-07-17 18:46:46.007544
REQUEST 19 2023-07-17 18:46:46.008050
RELEASED 18 2023-07-17 18:46:46.017485
GRANTED 20 2023-07-17 18:46:46.017952
REQUEST 18 2023-07-17 18:46:46.018458
RELEASED 20 2023-07-17 18:46:46.027528
GRANTED 21 2023-07-17 18:46:46.028498
REQUEST 20 2023-07-17 18:46:46.029603
RELEASED 21 2023-07-17 18:46:46.050349
GRANTED 22 2023-07-17 18:46:46.050349
REQUEST 21 2023-07-17 18:46:46.050913
RELEASED 22 2023-07-17 18:46:46.070325
GRANTED 23 2023-07-17 18:46:46.071244
REQUEST 22 2023-07-17 18:46:46.071784
RELEASED 23 2023-07-17 18:46:46.082719
GRANTED 24 2023-07-17 18:46:46.083179
REQUEST 23 2023-07-17 18:46:46.083684
RELEASED 24 2023-07-17 18:46:46.104582
GRANTED 25 2023-07-17 18:46:46.105683
REQUEST 24 2023-07-17 18:46:46.107024
RELEASED 25 2023-07-17 18:46:46.127908
GRANTED 26 2023-07-17 18:46:46.128468
REQUEST 25 2023-07-17 18:46:46.129575
RELEASED 26 2023-07-17 18:46:46.138134
GRANTED 27 2023-07-17 18:46:46.138644
REQUEST 26 2023-07-17 18:46:46.139182
RELEASED 27 2023-07-17 18:46:46.149868
GRANTED 28 2023-07-17 18:46:46.150377
REQUEST 27 2023-07-17 18:46:46.150377
RELEASED 28 2023-07-17 18:46:46.161642
GRANTED 2 2023-07-17 18:46:46.162149
REQUEST 28 2023-07-17 18:46:46.163283
RELEASED 2 2023-07-17 18:46:46.171995
GRANTED 29 2023-07-17 18:46:46.173700
REQUEST 2 2023-07-17 18:46:46.176149
RELEASED 29 2023-07-17 18:46:46.196907
GRANTED 30 2023-07-17 18:46:46.197414
REQUEST 29 2023-07-17 18:46:46.198006
RELEASED 30 2023-07-17 18:46:46.210391
GRANTED 31 2023-07-17 18:46:46.210859
REQUEST 30 2023-07-17 18:46:46.211363
RELEASED 31 2023-07-17 18:46:46.232313
GRANTED 0 2023-07-17 18:46:46.232313
REQUEST 31 2023-07-17 18:46:46.232819
RELEASED 0 2023-07-17 18:46:46.246544
GRANTED 3 2023-07-17 18:46:46.246544
REQUEST 0 2023-07-17 18:46:46.247048

RELEASED 3 2023-07-17 18:46:46.254660
GRANTED 4 2023-07-17 18:46:46.255168
REQUEST 3 2023-07-17 18:46:46.256567
RELEASED 4 2023-07-17 18:46:46.278069
GRANTED 6 2023-07-17 18:46:46.301098
REQUEST 4 2023-07-17 18:46:46.323449
RELEASED 6 2023-07-17 18:47:47.323154
GRANTED 5 2023-07-17 18:47:47.323154
REQUEST 6 2023-07-17 18:47:47.324154
RELEASED 5 2023-07-17 18:47:47.334896
GRANTED 7 2023-07-17 18:47:47.335401
REQUEST 5 2023-07-17 18:47:47.336072
RELEASED 7 2023-07-17 18:47:47.361440
GRANTED 8 2023-07-17 18:47:47.362497
REQUEST 7 2023-07-17 18:47:47.363124
RELEASED 8 2023-07-17 18:47:47.378670
GRANTED 9 2023-07-17 18:47:47.378670
REQUEST 8 2023-07-17 18:47:47.379719
RELEASED 9 2023-07-17 18:47:47.390157
GRANTED 10 2023-07-17 18:47:47.390757
REQUEST 9 2023-07-17 18:47:47.391798
RELEASED 10 2023-07-17 18:47:47.416087
GRANTED 11 2023-07-17 18:47:47.416593
REQUEST 10 2023-07-17 18:47:47.416593
RELEASED 11 2023-07-17 18:47:47.426649
GRANTED 12 2023-07-17 18:47:47.426649
REQUEST 11 2023-07-17 18:47:47.427156
RELEASED 12 2023-07-17 18:47:47.435823
GRANTED 13 2023-07-17 18:47:47.435823
REQUEST 12 2023-07-17 18:47:47.436328
RELEASED 13 2023-07-17 18:47:47.448396
GRANTED 14 2023-07-17 18:47:47.448901
REQUEST 13 2023-07-17 18:47:47.448901
RELEASED 14 2023-07-17 18:47:47.460453
GRANTED 1 2023-07-17 18:47:47.460959
REQUEST 14 2023-07-17 18:47:47.461501
RELEASED 1 2023-07-17 18:47:47.472640
GRANTED 15 2023-07-17 18:47:47.472640
RELEASED 15 2023-07-17 18:47:47.495066
GRANTED 16 2023-07-17 18:47:47.495971
REQUEST 15 2023-07-17 18:47:47.497059
RELEASED 16 2023-07-17 18:47:47.508059
GRANTED 17 2023-07-17 18:47:47.508571
REQUEST 16 2023-07-17 18:47:47.508571
RELEASED 17 2023-07-17 18:47:47.529426
GRANTED 19 2023-07-17 18:47:47.530688
REQUEST 17 2023-07-17 18:47:47.531196
RELEASED 19 2023-07-17 18:47:47.541055
GRANTED 18 2023-07-17 18:47:47.542147
REQUEST 19 2023-07-17 18:47:47.542682
RELEASED 18 2023-07-17 18:47:47.552390
GRANTED 20 2023-07-17 18:47:47.552774
REQUEST 18 2023-07-17 18:47:47.553280
RELEASED 20 2023-07-17 18:47:47.566740
GRANTED 21 2023-07-17 18:47:47.566740

REQUEST 20 2023-07-17 18:47:47.567246
RELEASED 21 2023-07-17 18:47:47.588146
GRANTED 22 2023-07-17 18:47:47.588146
REQUEST 21 2023-07-17 18:47:47.588651
RELEASED 22 2023-07-17 18:47:47.599485
GRANTED 23 2023-07-17 18:47:47.600527
REQUEST 22 2023-07-17 18:47:47.601107
RELEASED 23 2023-07-17 18:47:47.607888
GRANTED 24 2023-07-17 18:47:47.608397
REQUEST 23 2023-07-17 18:47:47.608925
RELEASED 24 2023-07-17 18:47:47.623277
GRANTED 25 2023-07-17 18:47:47.623793
REQUEST 24 2023-07-17 18:47:47.624869
RELEASED 25 2023-07-17 18:47:47.648339
GRANTED 26 2023-07-17 18:47:47.648798
REQUEST 25 2023-07-17 18:47:47.649302
RELEASED 26 2023-07-17 18:47:47.662046
GRANTED 27 2023-07-17 18:47:47.663554
REQUEST 26 2023-07-17 18:47:47.664192
RELEASED 27 2023-07-17 18:47:47.674600
GRANTED 28 2023-07-17 18:47:47.675487
REQUEST 27 2023-07-17 18:47:47.675742
RELEASED 28 2023-07-17 18:47:47.686667
GRANTED 2 2023-07-17 18:47:47.687258
REQUEST 28 2023-07-17 18:47:47.687764
RELEASED 2 2023-07-17 18:47:47.712715
GRANTED 29 2023-07-17 18:47:47.712715
RELEASED 29 2023-07-17 18:47:47.736523
GRANTED 30 2023-07-17 18:47:47.737429
REQUEST 29 2023-07-17 18:47:47.737962
RELEASED 30 2023-07-17 18:47:47.751190
GRANTED 31 2023-07-17 18:47:47.751190
REQUEST 30 2023-07-17 18:47:47.751694
RELEASED 31 2023-07-17 18:47:47.760499
GRANTED 0 2023-07-17 18:47:47.760499
REQUEST 31 2023-07-17 18:47:47.761004
RELEASED 0 2023-07-17 18:47:47.774163
GRANTED 3 2023-07-17 18:47:47.774727
RELEASED 3 2023-07-17 18:47:47.785753
GRANTED 4 2023-07-17 18:47:47.786313
RELEASED 4 2023-07-17 18:47:47.810433
GRANTED 6 2023-07-17 18:47:47.810891
RELEASED 6 2023-07-17 18:47:47.820272
GRANTED 5 2023-07-17 18:47:47.820777
RELEASED 5 2023-07-17 18:47:47.846007
GRANTED 7 2023-07-17 18:47:47.846566
RELEASED 7 2023-07-17 18:47:47.860571
GRANTED 8 2023-07-17 18:47:47.861075
RELEASED 8 2023-07-17 18:47:47.870963
GRANTED 9 2023-07-17 18:47:47.871469
RELEASED 9 2023-07-17 18:47:47.884356
GRANTED 10 2023-07-17 18:47:47.884356
RELEASED 10 2023-07-17 18:47:47.899459
GRANTED 11 2023-07-17 18:47:47.899852
RELEASED 11 2023-07-17 18:47:47.913286

```
GRANTED 12 2023-07-17 18:47:47.913286
RELEASED 12 2023-07-17 18:47:47.929813
GRANTED 13 2023-07-17 18:47:47.930318
RELEASED 13 2023-07-17 18:47:47.939609
GRANTED 14 2023-07-17 18:47:47.939609
RELEASED 14 2023-07-17 18:47:47.956778
GRANTED 15 2023-07-17 18:47:47.957287
RELEASED 15 2023-07-17 18:47:47.968954
GRANTED 16 2023-07-17 18:47:47.968954
RELEASED 16 2023-07-17 18:47:47.987703
GRANTED 17 2023-07-17 18:47:47.988212
RELEASED 17 2023-07-17 18:47:47.001405
GRANTED 19 2023-07-17 18:47:47.001917
RELEASED 19 2023-07-17 18:47:47.028101
GRANTED 18 2023-07-17 18:47:47.028606
RELEASED 18 2023-07-17 18:47:47.037942
GRANTED 20 2023-07-17 18:47:47.038447
RELEASED 20 2023-07-17 18:47:47.051612
GRANTED 21 2023-07-17 18:47:47.051612
RELEASED 21 2023-07-17 18:47:47.074338
GRANTED 22 2023-07-17 18:47:47.075371
RELEASED 22 2023-07-17 18:47:47.089217
GRANTED 23 2023-07-17 18:47:47.089679
RELEASED 23 2023-07-17 18:47:47.118311
GRANTED 24 2023-07-17 18:47:47.118802
RELEASED 24 2023-07-17 18:47:47.132911
GRANTED 25 2023-07-17 18:47:47.133837
RELEASED 25 2023-07-17 18:47:47.148030
GRANTED 26 2023-07-17 18:47:47.149026
RELEASED 26 2023-07-17 18:47:47.165591
GRANTED 27 2023-07-17 18:47:47.166241
RELEASED 27 2023-07-17 18:47:47.183177
GRANTED 28 2023-07-17 18:47:47.183177
RELEASED 28 2023-07-17 18:47:47.209530
GRANTED 29 2023-07-17 18:47:47.209530
RELEASED 29 2023-07-17 18:47:47.221216
GRANTED 30 2023-07-17 18:47:47.221216
RELEASED 30 2023-07-17 18:47:47.233206
GRANTED 31 2023-07-17 18:47:47.233206
RELEASED 31 2023-07-17 18:47:47.244504
```

▼ **n = 64, r = 5, e k = 1 - 324,111 segundos**

▼ results.txt (320 linhas 64x5)

```
Process Id: 0 - 2023-07-17 18:48:52.378441
Process Id: 1 - 2023-07-17 18:48:53.386581
Process Id: 2 - 2023-07-17 18:48:54.417623
Process Id: 3 - 2023-07-17 18:48:55.423605
Process Id: 5 - 2023-07-17 18:48:56.445478
Process Id: 4 - 2023-07-17 18:48:57.454076
Process Id: 6 - 2023-07-17 18:48:58.464926
```

Process Id: 8 - 2023-07-17 18:48:59.473337
Process Id: 9 - 2023-07-17 18:49:00.478853
Process Id: 7 - 2023-07-17 18:49:01.488049
Process Id: 10 - 2023-07-17 18:49:02.505670
Process Id: 11 - 2023-07-17 18:49:03.522915
Process Id: 13 - 2023-07-17 18:49:04.540788
Process Id: 12 - 2023-07-17 18:49:05.560219
Process Id: 14 - 2023-07-17 18:49:06.572010
Process Id: 15 - 2023-07-17 18:49:07.594352
Process Id: 16 - 2023-07-17 18:49:08.604623
Process Id: 18 - 2023-07-17 18:49:09.626322
Process Id: 17 - 2023-07-17 18:49:10.638454
Process Id: 19 - 2023-07-17 18:49:11.647309
Process Id: 20 - 2023-07-17 18:49:12.658569
Process Id: 0 - 2023-07-17 18:49:13.666983
Process Id: 21 - 2023-07-17 18:49:14.675546
Process Id: 22 - 2023-07-17 18:49:15.686146
Process Id: 23 - 2023-07-17 18:49:16.706295
Process Id: 24 - 2023-07-17 18:49:17.717646
Process Id: 25 - 2023-07-17 18:49:18.733177
Process Id: 26 - 2023-07-17 18:49:19.755734
Process Id: 27 - 2023-07-17 18:49:20.767744
Process Id: 29 - 2023-07-17 18:49:21.780148
Process Id: 28 - 2023-07-17 18:49:22.806326
Process Id: 30 - 2023-07-17 18:49:23.829038
Process Id: 31 - 2023-07-17 18:49:24.848001
Process Id: 32 - 2023-07-17 18:49:25.855177
Process Id: 33 - 2023-07-17 18:49:26.868446
Process Id: 35 - 2023-07-17 18:49:27.892623
Process Id: 34 - 2023-07-17 18:49:28.904800
Process Id: 36 - 2023-07-17 18:49:29.913576
Process Id: 37 - 2023-07-17 18:49:30.952414
Process Id: 1 - 2023-07-17 18:49:31.979516
Process Id: 38 - 2023-07-17 18:49:32.989745
Process Id: 39 - 2023-07-17 18:49:33.999858
Process Id: 40 - 2023-07-17 18:49:35.012373
Process Id: 41 - 2023-07-17 18:49:36.023555
Process Id: 42 - 2023-07-17 18:49:37.037060
Process Id: 43 - 2023-07-17 18:49:38.057761
Process Id: 44 - 2023-07-17 18:49:39.083914
Process Id: 46 - 2023-07-17 18:49:40.097273
Process Id: 45 - 2023-07-17 18:49:41.110198
Process Id: 47 - 2023-07-17 18:49:42.174143
Process Id: 48 - 2023-07-17 18:49:43.193569
Process Id: 50 - 2023-07-17 18:49:44.215641
Process Id: 49 - 2023-07-17 18:49:45.226137
Process Id: 51 - 2023-07-17 18:49:46.241576
Process Id: 54 - 2023-07-17 18:49:47.264489
Process Id: 53 - 2023-07-17 18:49:48.285469
Process Id: 2 - 2023-07-17 18:49:49.298017
Process Id: 55 - 2023-07-17 18:49:50.308441
Process Id: 52 - 2023-07-17 18:49:51.315697
Process Id: 56 - 2023-07-17 18:49:52.331708
Process Id: 58 - 2023-07-17 18:49:53.338615
Process Id: 57 - 2023-07-17 18:49:54.350995

Process Id: 60 - 2023-07-17 18:49:55.359755
Process Id: 59 - 2023-07-17 18:49:56.369264
Process Id: 61 - 2023-07-17 18:49:57.380369
Process Id: 62 - 2023-07-17 18:49:58.388622
Process Id: 63 - 2023-07-17 18:49:59.402322
Process Id: 3 - 2023-07-17 18:50:00.413603
Process Id: 5 - 2023-07-17 18:50:01.423091
Process Id: 4 - 2023-07-17 18:50:02.435172
Process Id: 6 - 2023-07-17 18:50:03.445318
Process Id: 8 - 2023-07-17 18:50:04.456812
Process Id: 9 - 2023-07-17 18:50:05.468254
Process Id: 7 - 2023-07-17 18:50:06.480298
Process Id: 10 - 2023-07-17 18:50:07.491240
Process Id: 11 - 2023-07-17 18:50:08.505459
Process Id: 13 - 2023-07-17 18:50:09.526367
Process Id: 12 - 2023-07-17 18:50:10.540411
Process Id: 14 - 2023-07-17 18:50:11.549397
Process Id: 15 - 2023-07-17 18:50:12.564294
Process Id: 16 - 2023-07-17 18:50:13.586423
Process Id: 18 - 2023-07-17 18:50:14.602937
Process Id: 17 - 2023-07-17 18:50:15.613910
Process Id: 19 - 2023-07-17 18:50:16.627848
Process Id: 20 - 2023-07-17 18:50:17.644568
Process Id: 0 - 2023-07-17 18:50:18.658809
Process Id: 21 - 2023-07-17 18:50:19.671169
Process Id: 22 - 2023-07-17 18:50:20.683810
Process Id: 23 - 2023-07-17 18:50:21.694678
Process Id: 24 - 2023-07-17 18:50:22.705634
Process Id: 25 - 2023-07-17 18:50:23.764318
Process Id: 26 - 2023-07-17 18:50:24.806568
Process Id: 27 - 2023-07-17 18:50:25.828268
Process Id: 29 - 2023-07-17 18:50:26.842647
Process Id: 28 - 2023-07-17 18:50:27.864521
Process Id: 30 - 2023-07-17 18:50:28.877450
Process Id: 31 - 2023-07-17 18:50:29.885467
Process Id: 32 - 2023-07-17 18:50:30.893413
Process Id: 33 - 2023-07-17 18:50:31.908388
Process Id: 35 - 2023-07-17 18:50:32.929982
Process Id: 34 - 2023-07-17 18:50:33.952119
Process Id: 36 - 2023-07-17 18:50:34.967304
Process Id: 37 - 2023-07-17 18:50:35.978272
Process Id: 1 - 2023-07-17 18:50:37.015363
Process Id: 38 - 2023-07-17 18:50:38.043036
Process Id: 39 - 2023-07-17 18:50:39.057262
Process Id: 40 - 2023-07-17 18:50:40.068219
Process Id: 41 - 2023-07-17 18:50:41.081538
Process Id: 42 - 2023-07-17 18:50:42.098621
Process Id: 43 - 2023-07-17 18:50:43.108078
Process Id: 44 - 2023-07-17 18:50:44.122567
Process Id: 46 - 2023-07-17 18:50:45.137245
Process Id: 45 - 2023-07-17 18:50:46.150080
Process Id: 47 - 2023-07-17 18:50:47.164692
Process Id: 48 - 2023-07-17 18:50:48.190778
Process Id: 50 - 2023-07-17 18:50:49.227271
Process Id: 49 - 2023-07-17 18:50:50.242334

Process Id: 51 - 2023-07-17 18:50:51.255958
Process Id: 54 - 2023-07-17 18:50:52.269252
Process Id: 53 - 2023-07-17 18:50:53.282734
Process Id: 2 - 2023-07-17 18:50:54.298014
Process Id: 55 - 2023-07-17 18:50:55.309083
Process Id: 52 - 2023-07-17 18:50:56.320462
Process Id: 56 - 2023-07-17 18:50:57.335537
Process Id: 58 - 2023-07-17 18:50:58.353867
Process Id: 57 - 2023-07-17 18:50:59.364141
Process Id: 60 - 2023-07-17 18:51:00.379900
Process Id: 59 - 2023-07-17 18:51:01.400065
Process Id: 61 - 2023-07-17 18:51:02.410484
Process Id: 62 - 2023-07-17 18:51:03.431522
Process Id: 63 - 2023-07-17 18:51:04.450177
Process Id: 3 - 2023-07-17 18:51:05.459806
Process Id: 5 - 2023-07-17 18:51:06.467437
Process Id: 4 - 2023-07-17 18:51:07.482779
Process Id: 6 - 2023-07-17 18:51:08.493659
Process Id: 8 - 2023-07-17 18:51:09.510725
Process Id: 9 - 2023-07-17 18:51:10.533097
Process Id: 7 - 2023-07-17 18:51:11.543547
Process Id: 10 - 2023-07-17 18:51:12.550662
Process Id: 11 - 2023-07-17 18:51:13.565983
Process Id: 13 - 2023-07-17 18:51:14.577370
Process Id: 12 - 2023-07-17 18:51:15.588432
Process Id: 14 - 2023-07-17 18:51:16.602984
Process Id: 15 - 2023-07-17 18:51:17.613833
Process Id: 16 - 2023-07-17 18:51:18.621121
Process Id: 18 - 2023-07-17 18:51:19.630882
Process Id: 17 - 2023-07-17 18:51:20.650585
Process Id: 19 - 2023-07-17 18:51:21.663810
Process Id: 20 - 2023-07-17 18:51:22.674059
Process Id: 0 - 2023-07-17 18:51:23.687077
Process Id: 21 - 2023-07-17 18:51:24.700126
Process Id: 22 - 2023-07-17 18:51:25.722325
Process Id: 23 - 2023-07-17 18:51:26.732576
Process Id: 24 - 2023-07-17 18:51:27.741777
Process Id: 25 - 2023-07-17 18:51:28.758908
Process Id: 26 - 2023-07-17 18:51:29.797572
Process Id: 27 - 2023-07-17 18:51:30.820559
Process Id: 29 - 2023-07-17 18:51:31.836467
Process Id: 28 - 2023-07-17 18:51:32.860744
Process Id: 30 - 2023-07-17 18:51:33.873057
Process Id: 31 - 2023-07-17 18:51:34.888143
Process Id: 32 - 2023-07-17 18:51:35.902651
Process Id: 33 - 2023-07-17 18:51:36.932628
Process Id: 35 - 2023-07-17 18:51:37.958197
Process Id: 34 - 2023-07-17 18:51:38.972874
Process Id: 36 - 2023-07-17 18:51:39.986761
Process Id: 37 - 2023-07-17 18:51:40.998276
Process Id: 1 - 2023-07-17 18:51:42.006159
Process Id: 38 - 2023-07-17 18:51:43.020251
Process Id: 39 - 2023-07-17 18:51:44.042229
Process Id: 40 - 2023-07-17 18:51:45.053214
Process Id: 41 - 2023-07-17 18:51:46.063939

Process Id: 42 - 2023-07-17 18:51:47.083768
Process Id: 43 - 2023-07-17 18:51:48.105769
Process Id: 44 - 2023-07-17 18:51:49.119125
Process Id: 46 - 2023-07-17 18:51:50.132816
Process Id: 45 - 2023-07-17 18:51:51.163867
Process Id: 47 - 2023-07-17 18:51:52.187954
Process Id: 48 - 2023-07-17 18:51:53.204000
Process Id: 50 - 2023-07-17 18:51:54.216228
Process Id: 49 - 2023-07-17 18:51:55.228310
Process Id: 51 - 2023-07-17 18:51:56.240566
Process Id: 54 - 2023-07-17 18:51:57.264065
Process Id: 53 - 2023-07-17 18:51:58.284754
Process Id: 2 - 2023-07-17 18:51:59.300418
Process Id: 55 - 2023-07-17 18:52:00.311327
Process Id: 52 - 2023-07-17 18:52:01.321676
Process Id: 56 - 2023-07-17 18:52:02.339731
Process Id: 58 - 2023-07-17 18:52:03.364744
Process Id: 57 - 2023-07-17 18:52:04.383363
Process Id: 60 - 2023-07-17 18:52:05.401633
Process Id: 59 - 2023-07-17 18:52:06.420783
Process Id: 61 - 2023-07-17 18:52:07.434801
Process Id: 62 - 2023-07-17 18:52:08.455984
Process Id: 63 - 2023-07-17 18:52:09.466299
Process Id: 3 - 2023-07-17 18:52:10.479058
Process Id: 5 - 2023-07-17 18:52:11.506162
Process Id: 4 - 2023-07-17 18:52:12.532188
Process Id: 6 - 2023-07-17 18:52:13.543151
Process Id: 8 - 2023-07-17 18:52:14.556489
Process Id: 9 - 2023-07-17 18:52:15.566419
Process Id: 7 - 2023-07-17 18:52:16.574339
Process Id: 10 - 2023-07-17 18:52:17.597152
Process Id: 11 - 2023-07-17 18:52:18.607463
Process Id: 13 - 2023-07-17 18:52:19.619995
Process Id: 12 - 2023-07-17 18:52:20.627408
Process Id: 14 - 2023-07-17 18:52:21.638268
Process Id: 15 - 2023-07-17 18:52:22.653649
Process Id: 16 - 2023-07-17 18:52:23.679046
Process Id: 18 - 2023-07-17 18:52:24.689580
Process Id: 17 - 2023-07-17 18:52:25.700344
Process Id: 19 - 2023-07-17 18:52:26.710051
Process Id: 20 - 2023-07-17 18:52:27.723538
Process Id: 0 - 2023-07-17 18:52:28.733358
Process Id: 21 - 2023-07-17 18:52:29.742698
Process Id: 22 - 2023-07-17 18:52:30.764573
Process Id: 23 - 2023-07-17 18:52:31.785178
Process Id: 24 - 2023-07-17 18:52:32.797981
Process Id: 25 - 2023-07-17 18:52:33.810223
Process Id: 26 - 2023-07-17 18:52:34.820566
Process Id: 27 - 2023-07-17 18:52:35.840888
Process Id: 29 - 2023-07-17 18:52:36.850530
Process Id: 28 - 2023-07-17 18:52:37.873460
Process Id: 30 - 2023-07-17 18:52:38.885177
Process Id: 31 - 2023-07-17 18:52:39.897975
Process Id: 32 - 2023-07-17 18:52:40.920038
Process Id: 33 - 2023-07-17 18:52:41.932162

Process Id: 35 - 2023-07-17 18:52:42.957903
Process Id: 34 - 2023-07-17 18:52:43.995938
Process Id: 36 - 2023-07-17 18:52:45.026312
Process Id: 37 - 2023-07-17 18:52:46.051158
Process Id: 1 - 2023-07-17 18:52:47.074789
Process Id: 38 - 2023-07-17 18:52:48.087315
Process Id: 39 - 2023-07-17 18:52:49.104736
Process Id: 40 - 2023-07-17 18:52:50.127310
Process Id: 41 - 2023-07-17 18:52:51.143650
Process Id: 42 - 2023-07-17 18:52:52.163693
Process Id: 43 - 2023-07-17 18:52:53.182720
Process Id: 44 - 2023-07-17 18:52:54.190782
Process Id: 46 - 2023-07-17 18:52:55.216373
Process Id: 45 - 2023-07-17 18:52:56.229249
Process Id: 47 - 2023-07-17 18:52:57.240849
Process Id: 48 - 2023-07-17 18:52:58.264954
Process Id: 50 - 2023-07-17 18:52:59.277718
Process Id: 49 - 2023-07-17 18:53:00.297869
Process Id: 51 - 2023-07-17 18:53:01.317641
Process Id: 54 - 2023-07-17 18:53:02.340703
Process Id: 53 - 2023-07-17 18:53:03.367117
Process Id: 2 - 2023-07-17 18:53:04.376320
Process Id: 55 - 2023-07-17 18:53:05.399361
Process Id: 52 - 2023-07-17 18:53:06.420066
Process Id: 56 - 2023-07-17 18:53:07.434389
Process Id: 58 - 2023-07-17 18:53:08.448167
Process Id: 57 - 2023-07-17 18:53:09.458993
Process Id: 60 - 2023-07-17 18:53:10.490052
Process Id: 59 - 2023-07-17 18:53:11.512572
Process Id: 61 - 2023-07-17 18:53:12.523402
Process Id: 62 - 2023-07-17 18:53:13.536945
Process Id: 63 - 2023-07-17 18:53:14.550012
Process Id: 3 - 2023-07-17 18:53:15.566139
Process Id: 5 - 2023-07-17 18:53:16.578991
Process Id: 4 - 2023-07-17 18:53:17.596873
Process Id: 6 - 2023-07-17 18:53:18.620587
Process Id: 8 - 2023-07-17 18:53:19.637461
Process Id: 9 - 2023-07-17 18:53:20.651316
Process Id: 7 - 2023-07-17 18:53:21.675013
Process Id: 10 - 2023-07-17 18:53:22.698717
Process Id: 11 - 2023-07-17 18:53:23.717829
Process Id: 13 - 2023-07-17 18:53:24.731913
Process Id: 12 - 2023-07-17 18:53:25.757748
Process Id: 14 - 2023-07-17 18:53:26.781014
Process Id: 15 - 2023-07-17 18:53:27.790027
Process Id: 16 - 2023-07-17 18:53:28.801086
Process Id: 18 - 2023-07-17 18:53:29.810833
Process Id: 17 - 2023-07-17 18:53:30.840977
Process Id: 19 - 2023-07-17 18:53:31.864946
Process Id: 20 - 2023-07-17 18:53:32.877195
Process Id: 21 - 2023-07-17 18:53:33.888465
Process Id: 22 - 2023-07-17 18:53:34.902247
Process Id: 23 - 2023-07-17 18:53:35.922077
Process Id: 24 - 2023-07-17 18:53:36.943257
Process Id: 25 - 2023-07-17 18:53:37.957340


```
Process Id: 26 - 2023-07-17 18:53:38.971611
Process Id: 27 - 2023-07-17 18:53:39.982568
Process Id: 29 - 2023-07-17 18:53:40.992567
Process Id: 28 - 2023-07-17 18:53:42.006218
Process Id: 30 - 2023-07-17 18:53:43.021168
Process Id: 31 - 2023-07-17 18:53:44.032265
Process Id: 32 - 2023-07-17 18:53:45.049184
Process Id: 33 - 2023-07-17 18:53:46.058550
Process Id: 35 - 2023-07-17 18:53:47.075677
Process Id: 34 - 2023-07-17 18:53:48.087476
Process Id: 36 - 2023-07-17 18:53:49.100023
Process Id: 37 - 2023-07-17 18:53:50.115853
Process Id: 38 - 2023-07-17 18:53:51.129321
Process Id: 39 - 2023-07-17 18:53:52.142061
Process Id: 40 - 2023-07-17 18:53:53.156859
Process Id: 41 - 2023-07-17 18:53:54.208819
Process Id: 42 - 2023-07-17 18:53:55.226713
Process Id: 43 - 2023-07-17 18:53:56.245223
Process Id: 44 - 2023-07-17 18:53:57.257833
Process Id: 46 - 2023-07-17 18:53:58.268797
Process Id: 45 - 2023-07-17 18:53:59.284848
Process Id: 47 - 2023-07-17 18:54:00.298159
Process Id: 48 - 2023-07-17 18:54:01.315560
Process Id: 50 - 2023-07-17 18:54:02.326339
Process Id: 49 - 2023-07-17 18:54:03.334628
Process Id: 51 - 2023-07-17 18:54:04.348840
Process Id: 54 - 2023-07-17 18:54:05.361314
Process Id: 53 - 2023-07-17 18:54:06.368873
Process Id: 55 - 2023-07-17 18:54:07.378800
Process Id: 52 - 2023-07-17 18:54:08.387721
Process Id: 56 - 2023-07-17 18:54:09.399518
Process Id: 58 - 2023-07-17 18:54:10.415551
Process Id: 57 - 2023-07-17 18:54:11.427153
Process Id: 60 - 2023-07-17 18:54:12.447544
Process Id: 59 - 2023-07-17 18:54:13.452226
Process Id: 61 - 2023-07-17 18:54:14.465794
Process Id: 62 - 2023-07-17 18:54:15.479015
Process Id: 63 - 2023-07-17 18:54:16.489138
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 18:48:48.367434
GRANTED 0 2023-07-17 18:48:48.368909
REQUEST 1 2023-07-17 18:48:48.368909
REQUEST 2 2023-07-17 18:48:48.419929
REQUEST 3 2023-07-17 18:48:48.491882
REQUEST 5 2023-07-17 18:48:48.514452
REQUEST 4 2023-07-17 18:48:48.516460
REQUEST 6 2023-07-17 18:48:48.590381
REQUEST 8 2023-07-17 18:48:48.666503
REQUEST 9 2023-07-17 18:48:48.772641
```

REQUEST 7 2023-07-17 18:48:48.798361
REQUEST 10 2023-07-17 18:48:48.888991
REQUEST 11 2023-07-17 18:48:48.889819
REQUEST 13 2023-07-17 18:48:48.948426
REQUEST 12 2023-07-17 18:48:48.948935
REQUEST 14 2023-07-17 18:48:48.085561
REQUEST 15 2023-07-17 18:48:48.132352
REQUEST 16 2023-07-17 18:48:48.181934
REQUEST 18 2023-07-17 18:48:48.257081
REQUEST 17 2023-07-17 18:48:48.274737
REQUEST 19 2023-07-17 18:48:48.341936
RELEASED 0 2023-07-17 18:48:48.382459
GRANTED 1 2023-07-17 18:48:48.384443
REQUEST 20 2023-07-17 18:48:48.384949
REQUEST 0 2023-07-17 18:48:48.392590
REQUEST 21 2023-07-17 18:48:48.431517
REQUEST 22 2023-07-17 18:48:48.523660
REQUEST 23 2023-07-17 18:48:48.537382
REQUEST 24 2023-07-17 18:48:48.647249
REQUEST 25 2023-07-17 18:48:48.647776
REQUEST 26 2023-07-17 18:48:48.709885
REQUEST 27 2023-07-17 18:48:48.801218
REQUEST 29 2023-07-17 18:48:48.848440
REQUEST 28 2023-07-17 18:48:48.879853
REQUEST 30 2023-07-17 18:48:48.908163
REQUEST 31 2023-07-17 18:48:48.986293
REQUEST 32 2023-07-17 18:48:48.094059
REQUEST 33 2023-07-17 18:48:48.202167
REQUEST 35 2023-07-17 18:48:48.264124
REQUEST 34 2023-07-17 18:48:48.264628
REQUEST 36 2023-07-17 18:48:48.340548
REQUEST 37 2023-07-17 18:48:48.340548
RELEASED 1 2023-07-17 18:48:48.416595
GRANTED 2 2023-07-17 18:48:48.416595
REQUEST 1 2023-07-17 18:48:48.417100
REQUEST 38 2023-07-17 18:48:48.479530
REQUEST 39 2023-07-17 18:48:48.496053
REQUEST 40 2023-07-17 18:48:48.574959
REQUEST 41 2023-07-17 18:48:48.621071
REQUEST 42 2023-07-17 18:48:48.621071
REQUEST 43 2023-07-17 18:48:48.731576
REQUEST 44 2023-07-17 18:48:48.731576
REQUEST 46 2023-07-17 18:48:48.869616
REQUEST 45 2023-07-17 18:48:48.870120
REQUEST 47 2023-07-17 18:48:48.963100
REQUEST 48 2023-07-17 18:48:48.054287
REQUEST 50 2023-07-17 18:48:48.084664
REQUEST 49 2023-07-17 18:48:48.178334
REQUEST 51 2023-07-17 18:48:48.208491
REQUEST 54 2023-07-17 18:48:48.363612
REQUEST 53 2023-07-17 18:48:48.363612
RELEASED 2 2023-07-17 18:48:48.421940
GRANTED 3 2023-07-17 18:48:48.422566
REQUEST 2 2023-07-17 18:48:48.423073
REQUEST 55 2023-07-17 18:48:48.440406

REQUEST 52 2023-07-17 18:48:48.440406
REQUEST 56 2023-07-17 18:48:48.516211
REQUEST 58 2023-07-17 18:48:48.570569
REQUEST 57 2023-07-17 18:48:48.580240
REQUEST 60 2023-07-17 18:48:48.727942
REQUEST 59 2023-07-17 18:48:48.736543
REQUEST 61 2023-07-17 18:48:48.811296
REQUEST 62 2023-07-17 18:48:48.828023
REQUEST 63 2023-07-17 18:48:48.842515
RELEASED 3 2023-07-17 18:48:48.444030
GRANTED 5 2023-07-17 18:48:48.444364
REQUEST 3 2023-07-17 18:48:48.444870
RELEASED 5 2023-07-17 18:48:48.453053
GRANTED 4 2023-07-17 18:48:48.453053
REQUEST 5 2023-07-17 18:48:48.453560
RELEASED 4 2023-07-17 18:48:48.462843
GRANTED 6 2023-07-17 18:48:48.463841
REQUEST 4 2023-07-17 18:48:48.464347
RELEASED 6 2023-07-17 18:48:48.471728
GRANTED 8 2023-07-17 18:48:48.472236
REQUEST 6 2023-07-17 18:48:48.472830
RELEASED 8 2023-07-17 18:49:49.477823
GRANTED 9 2023-07-17 18:49:49.477823
REQUEST 8 2023-07-17 18:49:49.478329
RELEASED 9 2023-07-17 18:49:49.487020
GRANTED 7 2023-07-17 18:49:49.487020
REQUEST 9 2023-07-17 18:49:49.487525
RELEASED 7 2023-07-17 18:49:49.504086
GRANTED 10 2023-07-17 18:49:49.504591
REQUEST 7 2023-07-17 18:49:49.505126
RELEASED 10 2023-07-17 18:49:49.521883
GRANTED 11 2023-07-17 18:49:49.522388
REQUEST 10 2023-07-17 18:49:49.522388
RELEASED 11 2023-07-17 18:49:49.536503
GRANTED 13 2023-07-17 18:49:49.538296
REQUEST 11 2023-07-17 18:49:49.539982
RELEASED 13 2023-07-17 18:49:49.559160
GRANTED 12 2023-07-17 18:49:49.559667
REQUEST 13 2023-07-17 18:49:49.559667
RELEASED 12 2023-07-17 18:49:49.570427
GRANTED 14 2023-07-17 18:49:49.570901
REQUEST 12 2023-07-17 18:49:49.571407
RELEASED 14 2023-07-17 18:49:49.592974
GRANTED 15 2023-07-17 18:49:49.592974
REQUEST 14 2023-07-17 18:49:49.593831
RELEASED 15 2023-07-17 18:49:49.602728
GRANTED 16 2023-07-17 18:49:49.602728
REQUEST 15 2023-07-17 18:49:49.604116
RELEASED 16 2023-07-17 18:49:49.625268
GRANTED 18 2023-07-17 18:49:49.625268
REQUEST 16 2023-07-17 18:49:49.625773
RELEASED 18 2023-07-17 18:49:49.637016
GRANTED 17 2023-07-17 18:49:49.637412
REQUEST 18 2023-07-17 18:49:49.638454
RELEASED 17 2023-07-17 18:49:49.646267

GRANTED 19 2023-07-17 18:49:49.646267
REQUEST 17 2023-07-17 18:49:49.646772
RELEASED 19 2023-07-17 18:49:49.657537
GRANTED 20 2023-07-17 18:49:49.657537
REQUEST 19 2023-07-17 18:49:49.658043
RELEASED 20 2023-07-17 18:49:49.665228
GRANTED 0 2023-07-17 18:49:49.665917
REQUEST 20 2023-07-17 18:49:49.666476
RELEASED 0 2023-07-17 18:49:49.674198
GRANTED 21 2023-07-17 18:49:49.674518
REQUEST 0 2023-07-17 18:49:49.675022
RELEASED 21 2023-07-17 18:49:49.684455
GRANTED 22 2023-07-17 18:49:49.684455
REQUEST 21 2023-07-17 18:49:49.685015
RELEASED 22 2023-07-17 18:49:49.704184
GRANTED 23 2023-07-17 18:49:49.704694
REQUEST 22 2023-07-17 18:49:49.705198
RELEASED 23 2023-07-17 18:49:49.716144
GRANTED 24 2023-07-17 18:49:49.717119
REQUEST 23 2023-07-17 18:49:49.717646
RELEASED 24 2023-07-17 18:49:49.726256
GRANTED 25 2023-07-17 18:49:49.727973
REQUEST 24 2023-07-17 18:49:49.730535
RELEASED 25 2023-07-17 18:49:49.754337
GRANTED 26 2023-07-17 18:49:49.754674
REQUEST 25 2023-07-17 18:49:49.755184
RELEASED 26 2023-07-17 18:49:49.766676
GRANTED 27 2023-07-17 18:49:49.766676
REQUEST 26 2023-07-17 18:49:49.767231
RELEASED 27 2023-07-17 18:49:49.776642
GRANTED 29 2023-07-17 18:49:49.778028
REQUEST 27 2023-07-17 18:49:49.779122
RELEASED 29 2023-07-17 18:49:49.804713
GRANTED 28 2023-07-17 18:49:49.805294
REQUEST 29 2023-07-17 18:49:49.805800
RELEASED 28 2023-07-17 18:49:49.827012
GRANTED 30 2023-07-17 18:49:49.827437
REQUEST 28 2023-07-17 18:49:49.828516
RELEASED 30 2023-07-17 18:49:49.846430
GRANTED 31 2023-07-17 18:49:49.846936
REQUEST 30 2023-07-17 18:49:49.847466
RELEASED 31 2023-07-17 18:49:49.854136
GRANTED 32 2023-07-17 18:49:49.854136
REQUEST 31 2023-07-17 18:49:49.854642
RELEASED 32 2023-07-17 18:49:49.861622
GRANTED 33 2023-07-17 18:49:49.863142
REQUEST 32 2023-07-17 18:49:49.867399
RELEASED 33 2023-07-17 18:49:49.891595
GRANTED 35 2023-07-17 18:49:49.892099
REQUEST 33 2023-07-17 18:49:49.892099
RELEASED 35 2023-07-17 18:49:49.902785
GRANTED 34 2023-07-17 18:49:49.903775
REQUEST 35 2023-07-17 18:49:49.904281
RELEASED 34 2023-07-17 18:49:49.912154
GRANTED 36 2023-07-17 18:49:49.912536

REQUEST 34 2023-07-17 18:49:49.913041
RELEASED 36 2023-07-17 18:49:49.942656
GRANTED 37 2023-07-17 18:49:49.943163
REQUEST 36 2023-07-17 18:49:49.945197
RELEASED 37 2023-07-17 18:49:49.978415
GRANTED 1 2023-07-17 18:49:49.978415
REQUEST 37 2023-07-17 18:49:49.979009
RELEASED 1 2023-07-17 18:49:49.988667
GRANTED 38 2023-07-17 18:49:49.988667
REQUEST 1 2023-07-17 18:49:49.989173
RELEASED 38 2023-07-17 18:49:49.998775
GRANTED 39 2023-07-17 18:49:49.998775
REQUEST 38 2023-07-17 18:49:49.999280
RELEASED 39 2023-07-17 18:49:49.011345
GRANTED 40 2023-07-17 18:49:49.011345
REQUEST 39 2023-07-17 18:49:49.011849
RELEASED 40 2023-07-17 18:49:49.022526
GRANTED 41 2023-07-17 18:49:49.022526
REQUEST 40 2023-07-17 18:49:49.023030
RELEASED 41 2023-07-17 18:49:49.035499
GRANTED 42 2023-07-17 18:49:49.036004
REQUEST 41 2023-07-17 18:49:49.036538
RELEASED 42 2023-07-17 18:49:49.052221
GRANTED 43 2023-07-17 18:49:49.053729
REQUEST 42 2023-07-17 18:49:49.057761
RELEASED 43 2023-07-17 18:49:49.080981
GRANTED 44 2023-07-17 18:49:49.082142
REQUEST 43 2023-07-17 18:49:49.082905
RELEASED 44 2023-07-17 18:49:49.094376
GRANTED 46 2023-07-17 18:49:49.094881
REQUEST 44 2023-07-17 18:49:49.095894
RELEASED 46 2023-07-17 18:49:49.109177
GRANTED 45 2023-07-17 18:49:49.109177
REQUEST 46 2023-07-17 18:49:49.109682
RELEASED 45 2023-07-17 18:49:49.160653
GRANTED 47 2023-07-17 18:49:49.164161
REQUEST 45 2023-07-17 18:49:49.173907
RELEASED 47 2023-07-17 18:49:49.189997
GRANTED 48 2023-07-17 18:49:49.191031
REQUEST 47 2023-07-17 18:49:49.191945
RELEASED 48 2023-07-17 18:49:49.214546
GRANTED 50 2023-07-17 18:49:49.214546
REQUEST 48 2023-07-17 18:49:49.215135
RELEASED 50 2023-07-17 18:49:49.225107
GRANTED 49 2023-07-17 18:49:49.225612
REQUEST 50 2023-07-17 18:49:49.226137
RELEASED 49 2023-07-17 18:49:49.239985
GRANTED 51 2023-07-17 18:49:49.240901
REQUEST 49 2023-07-17 18:49:49.241452
RELEASED 51 2023-07-17 18:49:49.262847
GRANTED 54 2023-07-17 18:49:49.263362
REQUEST 51 2023-07-17 18:49:49.263983
RELEASED 54 2023-07-17 18:49:49.284341
GRANTED 53 2023-07-17 18:49:49.284341
REQUEST 54 2023-07-17 18:49:49.284846

RELEASED 53 2023-07-17 18:49:49.296465
GRANTED 2 2023-07-17 18:49:49.297495
REQUEST 53 2023-07-17 18:49:49.298017
RELEASED 2 2023-07-17 18:49:49.306927
GRANTED 55 2023-07-17 18:49:49.307917
REQUEST 2 2023-07-17 18:49:49.307917
RELEASED 55 2023-07-17 18:49:49.314541
GRANTED 52 2023-07-17 18:49:49.314541
REQUEST 55 2023-07-17 18:49:49.315131
RELEASED 52 2023-07-17 18:49:49.329819
GRANTED 56 2023-07-17 18:49:49.330452
REQUEST 52 2023-07-17 18:49:49.331202
RELEASED 56 2023-07-17 18:49:49.337588
GRANTED 58 2023-07-17 18:49:49.338093
REQUEST 56 2023-07-17 18:49:49.338093
RELEASED 58 2023-07-17 18:49:49.349901
GRANTED 57 2023-07-17 18:49:49.349901
REQUEST 58 2023-07-17 18:49:49.350410
RELEASED 57 2023-07-17 18:49:49.358732
GRANTED 60 2023-07-17 18:49:49.358732
REQUEST 57 2023-07-17 18:49:49.359237
RELEASED 60 2023-07-17 18:49:49.368133
GRANTED 59 2023-07-17 18:49:49.368133
REQUEST 60 2023-07-17 18:49:49.368637
RELEASED 59 2023-07-17 18:49:49.379338
GRANTED 61 2023-07-17 18:49:49.379338
REQUEST 59 2023-07-17 18:49:49.379846
RELEASED 61 2023-07-17 18:49:49.387540
GRANTED 62 2023-07-17 18:49:49.388045
REQUEST 61 2023-07-17 18:49:49.388045
RELEASED 62 2023-07-17 18:49:49.401291
GRANTED 63 2023-07-17 18:49:49.401291
REQUEST 62 2023-07-17 18:49:49.401797
RELEASED 63 2023-07-17 18:50:50.412044
GRANTED 3 2023-07-17 18:50:50.412549
REQUEST 63 2023-07-17 18:50:50.413082
RELEASED 3 2023-07-17 18:50:50.421552
GRANTED 5 2023-07-17 18:50:50.422063
REQUEST 3 2023-07-17 18:50:50.422567
RELEASED 5 2023-07-17 18:50:50.433600
GRANTED 4 2023-07-17 18:50:50.434106
REQUEST 5 2023-07-17 18:50:50.434645
RELEASED 4 2023-07-17 18:50:50.443701
GRANTED 6 2023-07-17 18:50:50.444211
REQUEST 4 2023-07-17 18:50:50.444805
RELEASED 6 2023-07-17 18:50:50.455257
GRANTED 8 2023-07-17 18:50:50.455764
REQUEST 6 2023-07-17 18:50:50.456284
RELEASED 8 2023-07-17 18:50:50.467225
GRANTED 9 2023-07-17 18:50:50.467225
REQUEST 8 2023-07-17 18:50:50.467730
RELEASED 9 2023-07-17 18:50:50.479270
GRANTED 7 2023-07-17 18:50:50.479270
REQUEST 9 2023-07-17 18:50:50.479775
RELEASED 7 2023-07-17 18:50:50.490077

GRANTED 10 2023-07-17 18:50:50.490581
REQUEST 7 2023-07-17 18:50:50.490665
RELEASED 10 2023-07-17 18:50:50.501961
GRANTED 11 2023-07-17 18:50:50.503058
REQUEST 10 2023-07-17 18:50:50.504223
RELEASED 11 2023-07-17 18:50:50.524295
GRANTED 13 2023-07-17 18:50:50.525316
REQUEST 11 2023-07-17 18:50:50.525826
RELEASED 13 2023-07-17 18:50:50.539380
GRANTED 12 2023-07-17 18:50:50.539886
REQUEST 13 2023-07-17 18:50:50.539886
RELEASED 12 2023-07-17 18:50:50.548366
GRANTED 14 2023-07-17 18:50:50.548366
REQUEST 12 2023-07-17 18:50:50.548872
RELEASED 14 2023-07-17 18:50:50.562722
GRANTED 15 2023-07-17 18:50:50.563230
REQUEST 14 2023-07-17 18:50:50.563762
RELEASED 15 2023-07-17 18:50:50.585084
GRANTED 16 2023-07-17 18:50:50.585589
REQUEST 15 2023-07-17 18:50:50.585918
RELEASED 16 2023-07-17 18:50:50.601022
GRANTED 18 2023-07-17 18:50:50.602201
REQUEST 16 2023-07-17 18:50:50.602937
RELEASED 18 2023-07-17 18:50:50.612444
GRANTED 17 2023-07-17 18:50:50.612884
REQUEST 18 2023-07-17 18:50:50.613391
RELEASED 17 2023-07-17 18:50:50.626731
GRANTED 19 2023-07-17 18:50:50.627301
REQUEST 17 2023-07-17 18:50:50.627848
RELEASED 19 2023-07-17 18:50:50.642963
GRANTED 20 2023-07-17 18:50:50.643471
REQUEST 19 2023-07-17 18:50:50.643987
RELEASED 20 2023-07-17 18:50:50.657254
GRANTED 0 2023-07-17 18:50:50.658193
REQUEST 20 2023-07-17 18:50:50.658288
RELEASED 0 2023-07-17 18:50:50.669938
GRANTED 21 2023-07-17 18:50:50.670579
REQUEST 0 2023-07-17 18:50:50.671085
RELEASED 21 2023-07-17 18:50:50.682787
GRANTED 22 2023-07-17 18:50:50.682787
REQUEST 21 2023-07-17 18:50:50.683292
RELEASED 22 2023-07-17 18:50:50.692911
GRANTED 23 2023-07-17 18:50:50.693879
REQUEST 22 2023-07-17 18:50:50.694385
RELEASED 23 2023-07-17 18:50:50.704229
GRANTED 24 2023-07-17 18:50:50.704587
REQUEST 23 2023-07-17 18:50:50.705108
RELEASED 24 2023-07-17 18:50:50.751114
GRANTED 25 2023-07-17 18:50:50.752114
REQUEST 24 2023-07-17 18:50:50.755632
RELEASED 25 2023-07-17 18:50:50.804036
GRANTED 26 2023-07-17 18:50:50.805417
REQUEST 25 2023-07-17 18:50:50.806568
RELEASED 26 2023-07-17 18:50:50.819567
GRANTED 27 2023-07-17 18:50:50.821658

REQUEST 26 2023-07-17 18:50:50.822220
RELEASED 27 2023-07-17 18:50:50.841574
GRANTED 29 2023-07-17 18:50:50.842142
REQUEST 27 2023-07-17 18:50:50.842142
RELEASED 29 2023-07-17 18:50:50.863016
GRANTED 28 2023-07-17 18:50:50.863016
REQUEST 29 2023-07-17 18:50:50.864015
RELEASED 28 2023-07-17 18:50:50.876408
GRANTED 30 2023-07-17 18:50:50.876912
REQUEST 28 2023-07-17 18:50:50.877450
RELEASED 30 2023-07-17 18:50:50.884441
GRANTED 31 2023-07-17 18:50:50.884441
REQUEST 30 2023-07-17 18:50:50.884946
RELEASED 31 2023-07-17 18:50:50.892381
GRANTED 32 2023-07-17 18:50:50.892381
REQUEST 31 2023-07-17 18:50:50.892887
RELEASED 32 2023-07-17 18:50:50.907278
GRANTED 33 2023-07-17 18:50:50.907786
REQUEST 32 2023-07-17 18:50:50.908388
RELEASED 33 2023-07-17 18:50:50.926501
GRANTED 35 2023-07-17 18:50:50.927641
REQUEST 33 2023-07-17 18:50:50.928820
RELEASED 35 2023-07-17 18:50:50.951090
GRANTED 34 2023-07-17 18:50:50.951596
REQUEST 35 2023-07-17 18:50:50.952119
RELEASED 34 2023-07-17 18:50:50.966260
GRANTED 36 2023-07-17 18:50:50.966765
REQUEST 34 2023-07-17 18:50:50.967304
RELEASED 36 2023-07-17 18:50:50.976766
GRANTED 37 2023-07-17 18:50:50.977236
REQUEST 36 2023-07-17 18:50:50.977742
RELEASED 37 2023-07-17 18:50:50.002005
GRANTED 1 2023-07-17 18:50:50.012782
REQUEST 37 2023-07-17 18:50:50.017395
RELEASED 1 2023-07-17 18:50:50.041485
GRANTED 38 2023-07-17 18:50:50.041990
REQUEST 1 2023-07-17 18:50:50.042517
RELEASED 38 2023-07-17 18:50:50.055095
GRANTED 39 2023-07-17 18:50:50.055600
REQUEST 38 2023-07-17 18:50:50.056228
RELEASED 39 2023-07-17 18:50:50.067190
GRANTED 40 2023-07-17 18:50:50.067695
REQUEST 39 2023-07-17 18:50:50.067695
RELEASED 40 2023-07-17 18:50:50.080507
GRANTED 41 2023-07-17 18:50:50.081012
REQUEST 40 2023-07-17 18:50:50.081012
RELEASED 41 2023-07-17 18:50:50.095746
GRANTED 42 2023-07-17 18:50:50.096790
REQUEST 41 2023-07-17 18:50:50.098115
RELEASED 42 2023-07-17 18:50:50.106556
GRANTED 43 2023-07-17 18:50:50.107016
REQUEST 42 2023-07-17 18:50:50.107538
RELEASED 43 2023-07-17 18:50:50.121539
GRANTED 44 2023-07-17 18:50:50.121539
REQUEST 43 2023-07-17 18:50:50.122043

RELEASED 44 2023-07-17 18:50:50.135325
GRANTED 46 2023-07-17 18:50:50.136416
REQUEST 44 2023-07-17 18:50:50.136616
RELEASED 46 2023-07-17 18:50:50.149047
GRANTED 45 2023-07-17 18:50:50.149047
REQUEST 46 2023-07-17 18:50:50.149551
RELEASED 45 2023-07-17 18:50:50.162342
GRANTED 47 2023-07-17 18:50:50.162934
REQUEST 45 2023-07-17 18:50:50.164097
RELEASED 47 2023-07-17 18:50:50.186280
GRANTED 48 2023-07-17 18:50:50.187665
REQUEST 47 2023-07-17 18:50:50.189382
RELEASED 48 2023-07-17 18:50:50.225762
GRANTED 50 2023-07-17 18:50:50.226183
REQUEST 48 2023-07-17 18:50:50.226760
RELEASED 50 2023-07-17 18:50:50.240771
GRANTED 49 2023-07-17 18:50:50.241279
REQUEST 50 2023-07-17 18:50:50.241804
RELEASED 49 2023-07-17 18:50:50.254118
GRANTED 51 2023-07-17 18:50:50.254623
REQUEST 49 2023-07-17 18:50:50.255210
RELEASED 51 2023-07-17 18:50:50.268222
GRANTED 54 2023-07-17 18:50:50.268222
REQUEST 51 2023-07-17 18:50:50.268729
RELEASED 54 2023-07-17 18:50:50.281669
GRANTED 53 2023-07-17 18:50:50.282734
REQUEST 54 2023-07-17 18:50:50.282734
RELEASED 53 2023-07-17 18:50:50.295066
GRANTED 2 2023-07-17 18:50:50.296104
REQUEST 53 2023-07-17 18:50:50.297183
RELEASED 2 2023-07-17 18:50:50.307969
GRANTED 55 2023-07-17 18:50:50.308478
REQUEST 2 2023-07-17 18:50:50.309083
RELEASED 55 2023-07-17 18:50:50.318996
GRANTED 52 2023-07-17 18:50:50.319910
REQUEST 55 2023-07-17 18:50:50.320462
RELEASED 52 2023-07-17 18:50:50.334380
GRANTED 56 2023-07-17 18:50:50.334380
REQUEST 52 2023-07-17 18:50:50.334961
RELEASED 56 2023-07-17 18:50:50.352847
GRANTED 58 2023-07-17 18:50:50.352847
REQUEST 56 2023-07-17 18:50:50.353353
RELEASED 58 2023-07-17 18:50:50.362330
GRANTED 57 2023-07-17 18:50:50.363433
REQUEST 58 2023-07-17 18:50:50.364141
RELEASED 57 2023-07-17 18:51:51.376821
GRANTED 60 2023-07-17 18:51:51.378272
REQUEST 57 2023-07-17 18:51:51.379393
RELEASED 60 2023-07-17 18:51:51.398498
GRANTED 59 2023-07-17 18:51:51.399007
REQUEST 60 2023-07-17 18:51:51.399539
RELEASED 59 2023-07-17 18:51:51.409254
GRANTED 61 2023-07-17 18:51:51.409760
REQUEST 59 2023-07-17 18:51:51.410484
RELEASED 61 2023-07-17 18:51:51.425100

GRANTED 62 2023-07-17 18:51:51.426842
REQUEST 61 2023-07-17 18:51:51.432118
RELEASED 62 2023-07-17 18:51:51.449097
GRANTED 63 2023-07-17 18:51:51.449605
REQUEST 62 2023-07-17 18:51:51.449673
RELEASED 63 2023-07-17 18:51:51.458778
GRANTED 3 2023-07-17 18:51:51.458778
REQUEST 63 2023-07-17 18:51:51.459282
RELEASED 3 2023-07-17 18:51:51.466404
GRANTED 5 2023-07-17 18:51:51.466404
REQUEST 3 2023-07-17 18:51:51.466909
RELEASED 5 2023-07-17 18:51:51.481091
GRANTED 4 2023-07-17 18:51:51.482150
REQUEST 5 2023-07-17 18:51:51.482779
RELEASED 4 2023-07-17 18:51:51.492059
GRANTED 6 2023-07-17 18:51:51.492631
REQUEST 4 2023-07-17 18:51:51.493139
RELEASED 6 2023-07-17 18:51:51.503758
GRANTED 8 2023-07-17 18:51:51.505381
REQUEST 6 2023-07-17 18:51:51.507129
RELEASED 8 2023-07-17 18:51:51.532068
GRANTED 9 2023-07-17 18:51:51.532574
REQUEST 8 2023-07-17 18:51:51.532574
RELEASED 9 2023-07-17 18:51:51.542526
GRANTED 7 2023-07-17 18:51:51.542526
REQUEST 9 2023-07-17 18:51:51.543033
RELEASED 7 2023-07-17 18:51:51.548980
GRANTED 10 2023-07-17 18:51:51.549597
REQUEST 7 2023-07-17 18:51:51.550156
RELEASED 10 2023-07-17 18:51:51.564237
GRANTED 11 2023-07-17 18:51:51.564846
REQUEST 10 2023-07-17 18:51:51.565354
RELEASED 11 2023-07-17 18:51:51.575215
GRANTED 13 2023-07-17 18:51:51.576192
REQUEST 11 2023-07-17 18:51:51.576811
RELEASED 13 2023-07-17 18:51:51.585756
GRANTED 12 2023-07-17 18:51:51.586942
REQUEST 13 2023-07-17 18:51:51.587924
RELEASED 12 2023-07-17 18:51:51.601958
GRANTED 14 2023-07-17 18:51:51.601958
REQUEST 12 2023-07-17 18:51:51.602463
RELEASED 14 2023-07-17 18:51:51.611871
GRANTED 15 2023-07-17 18:51:51.612761
REQUEST 14 2023-07-17 18:51:51.613305
RELEASED 15 2023-07-17 18:51:51.619631
GRANTED 16 2023-07-17 18:51:51.620094
REQUEST 15 2023-07-17 18:51:51.620599
RELEASED 16 2023-07-17 18:51:51.627814
GRANTED 18 2023-07-17 18:51:51.629450
REQUEST 16 2023-07-17 18:51:51.630377
RELEASED 18 2023-07-17 18:51:51.649562
GRANTED 17 2023-07-17 18:51:51.649562
REQUEST 18 2023-07-17 18:51:51.650067
RELEASED 17 2023-07-17 18:51:51.661368
GRANTED 19 2023-07-17 18:51:51.662654

REQUEST 17 2023-07-17 18:51:51.663183
RELEASED 19 2023-07-17 18:51:51.672559
GRANTED 20 2023-07-17 18:51:51.673552
REQUEST 19 2023-07-17 18:51:51.674059
RELEASED 20 2023-07-17 18:51:51.686018
GRANTED 0 2023-07-17 18:51:51.686018
REQUEST 20 2023-07-17 18:51:51.686523
RELEASED 0 2023-07-17 18:51:51.697357
GRANTED 21 2023-07-17 18:51:51.698430
REQUEST 0 2023-07-17 18:51:51.698960
RELEASED 21 2023-07-17 18:51:51.720843
GRANTED 22 2023-07-17 18:51:51.721301
REQUEST 21 2023-07-17 18:51:51.721805
RELEASED 22 2023-07-17 18:51:51.729807
GRANTED 23 2023-07-17 18:51:51.730913
REQUEST 22 2023-07-17 18:51:51.732022
RELEASED 23 2023-07-17 18:51:51.740208
GRANTED 24 2023-07-17 18:51:51.740715
REQUEST 23 2023-07-17 18:51:51.741251
RELEASED 24 2023-07-17 18:51:51.757874
GRANTED 25 2023-07-17 18:51:51.757874
REQUEST 24 2023-07-17 18:51:51.758380
RELEASED 25 2023-07-17 18:51:51.787032
GRANTED 26 2023-07-17 18:51:51.788032
REQUEST 25 2023-07-17 18:51:51.797064
RELEASED 26 2023-07-17 18:51:51.819532
GRANTED 27 2023-07-17 18:51:51.820036
REQUEST 26 2023-07-17 18:51:51.820559
RELEASED 27 2023-07-17 18:51:51.835330
GRANTED 29 2023-07-17 18:51:51.835961
REQUEST 27 2023-07-17 18:51:51.836467
RELEASED 29 2023-07-17 18:51:51.859414
GRANTED 28 2023-07-17 18:51:51.859923
REQUEST 29 2023-07-17 18:51:51.860446
RELEASED 28 2023-07-17 18:51:51.872004
GRANTED 30 2023-07-17 18:51:51.872004
REQUEST 28 2023-07-17 18:51:51.872510
RELEASED 30 2023-07-17 18:51:51.887113
GRANTED 31 2023-07-17 18:51:51.887113
REQUEST 30 2023-07-17 18:51:51.887619
RELEASED 31 2023-07-17 18:51:51.901146
GRANTED 32 2023-07-17 18:51:51.902128
REQUEST 31 2023-07-17 18:51:51.902651
RELEASED 32 2023-07-17 18:51:51.926523
GRANTED 33 2023-07-17 18:51:51.927693
REQUEST 32 2023-07-17 18:51:51.932112
RELEASED 33 2023-07-17 18:51:51.956114
GRANTED 35 2023-07-17 18:51:51.956622
REQUEST 33 2023-07-17 18:51:51.958197
RELEASED 35 2023-07-17 18:51:51.971247
GRANTED 34 2023-07-17 18:51:51.971759
REQUEST 35 2023-07-17 18:51:51.972874
RELEASED 34 2023-07-17 18:51:51.985071
GRANTED 36 2023-07-17 18:51:51.985646
REQUEST 34 2023-07-17 18:51:51.986151

RELEASED 36 2023-07-17 18:51:51.997228
GRANTED 37 2023-07-17 18:51:51.997733
REQUEST 36 2023-07-17 18:51:51.998276
RELEASED 37 2023-07-17 18:51:51.004553
GRANTED 1 2023-07-17 18:51:51.005552
REQUEST 37 2023-07-17 18:51:51.005654
RELEASED 1 2023-07-17 18:51:51.019223
GRANTED 38 2023-07-17 18:51:51.019223
REQUEST 1 2023-07-17 18:51:51.019728
RELEASED 38 2023-07-17 18:51:51.040334
GRANTED 39 2023-07-17 18:51:51.041344
REQUEST 38 2023-07-17 18:51:51.042229
RELEASED 39 2023-07-17 18:51:51.052183
GRANTED 40 2023-07-17 18:51:51.052183
REQUEST 39 2023-07-17 18:51:51.052689
RELEASED 40 2023-07-17 18:51:51.062434
GRANTED 41 2023-07-17 18:51:51.062434
REQUEST 40 2023-07-17 18:51:51.063434
RELEASED 41 2023-07-17 18:51:51.082174
GRANTED 42 2023-07-17 18:51:51.082744
REQUEST 41 2023-07-17 18:51:51.083249
RELEASED 42 2023-07-17 18:51:51.104175
GRANTED 43 2023-07-17 18:51:51.104738
REQUEST 42 2023-07-17 18:51:51.104738
RELEASED 43 2023-07-17 18:51:51.118092
GRANTED 44 2023-07-17 18:51:51.118092
REQUEST 43 2023-07-17 18:51:51.118597
RELEASED 44 2023-07-17 18:51:51.128173
GRANTED 46 2023-07-17 18:51:51.130362
REQUEST 44 2023-07-17 18:51:51.131541
RELEASED 46 2023-07-17 18:51:51.158783
GRANTED 45 2023-07-17 18:51:51.161945
REQUEST 46 2023-07-17 18:51:51.163112
RELEASED 45 2023-07-17 18:51:51.186924
GRANTED 47 2023-07-17 18:51:51.186924
REQUEST 45 2023-07-17 18:51:51.187429
RELEASED 47 2023-07-17 18:51:51.202493
GRANTED 48 2023-07-17 18:51:51.202493
REQUEST 47 2023-07-17 18:51:51.203496
RELEASED 48 2023-07-17 18:51:51.215065
GRANTED 50 2023-07-17 18:51:51.215065
REQUEST 48 2023-07-17 18:51:51.215720
RELEASED 50 2023-07-17 18:51:51.225937
GRANTED 49 2023-07-17 18:51:51.226443
REQUEST 50 2023-07-17 18:51:51.227221
RELEASED 49 2023-07-17 18:51:51.236622
GRANTED 51 2023-07-17 18:51:51.238123
REQUEST 49 2023-07-17 18:51:51.239305
RELEASED 51 2023-07-17 18:51:51.262541
GRANTED 54 2023-07-17 18:51:51.262541
REQUEST 51 2023-07-17 18:51:51.263536
RELEASED 54 2023-07-17 18:51:51.283717
GRANTED 53 2023-07-17 18:51:51.283717
REQUEST 54 2023-07-17 18:51:51.284223
RELEASED 53 2023-07-17 18:51:51.297736

GRANTED 2 2023-07-17 18:51:51.299783
REQUEST 53 2023-07-17 18:51:51.299913
RELEASED 2 2023-07-17 18:52:52.310293
GRANTED 55 2023-07-17 18:52:52.310293
REQUEST 2 2023-07-17 18:52:52.310799
RELEASED 55 2023-07-17 18:52:52.319969
GRANTED 52 2023-07-17 18:52:52.321109
REQUEST 55 2023-07-17 18:52:52.321676
RELEASED 52 2023-07-17 18:52:52.333613
GRANTED 56 2023-07-17 18:52:52.336043
REQUEST 52 2023-07-17 18:52:52.337552
RELEASED 56 2023-07-17 18:52:52.362614
GRANTED 58 2023-07-17 18:52:52.363652
REQUEST 56 2023-07-17 18:52:52.364239
RELEASED 58 2023-07-17 18:52:52.382341
GRANTED 57 2023-07-17 18:52:52.382341
REQUEST 58 2023-07-17 18:52:52.382848
RELEASED 57 2023-07-17 18:52:52.397750
GRANTED 60 2023-07-17 18:52:52.398749
REQUEST 57 2023-07-17 18:52:52.400838
RELEASED 60 2023-07-17 18:52:52.419644
GRANTED 59 2023-07-17 18:52:52.419644
REQUEST 60 2023-07-17 18:52:52.420276
RELEASED 59 2023-07-17 18:52:52.433771
GRANTED 61 2023-07-17 18:52:52.433771
REQUEST 59 2023-07-17 18:52:52.434276
RELEASED 61 2023-07-17 18:52:52.454009
GRANTED 62 2023-07-17 18:52:52.454905
REQUEST 61 2023-07-17 18:52:52.455452
RELEASED 62 2023-07-17 18:52:52.465148
GRANTED 63 2023-07-17 18:52:52.465653
REQUEST 62 2023-07-17 18:52:52.465794
RELEASED 63 2023-07-17 18:52:52.477448
GRANTED 3 2023-07-17 18:52:52.477982
REQUEST 63 2023-07-17 18:52:52.478488
RELEASED 3 2023-07-17 18:52:52.500652
GRANTED 5 2023-07-17 18:52:52.502631
REQUEST 3 2023-07-17 18:52:52.504375
RELEASED 5 2023-07-17 18:52:52.530692
GRANTED 4 2023-07-17 18:52:52.531157
REQUEST 5 2023-07-17 18:52:52.531663
RELEASED 4 2023-07-17 18:52:52.541696
GRANTED 6 2023-07-17 18:52:52.542122
REQUEST 4 2023-07-17 18:52:52.542626
RELEASED 6 2023-07-17 18:52:52.555375
GRANTED 8 2023-07-17 18:52:52.555881
REQUEST 6 2023-07-17 18:52:52.555881
RELEASED 8 2023-07-17 18:52:52.565325
GRANTED 9 2023-07-17 18:52:52.565830
REQUEST 8 2023-07-17 18:52:52.565913
RELEASED 9 2023-07-17 18:52:52.572761
GRANTED 7 2023-07-17 18:52:52.573268
REQUEST 9 2023-07-17 18:52:52.574339
RELEASED 7 2023-07-17 18:52:52.595457
GRANTED 10 2023-07-17 18:52:52.596007

REQUEST 7 2023-07-17 18:52:52.596545
RELEASED 10 2023-07-17 18:52:52.606021
GRANTED 11 2023-07-17 18:52:52.606433
REQUEST 10 2023-07-17 18:52:52.606939
RELEASED 11 2023-07-17 18:52:52.618965
GRANTED 13 2023-07-17 18:52:52.618965
REQUEST 11 2023-07-17 18:52:52.619470
RELEASED 13 2023-07-17 18:52:52.626309
GRANTED 12 2023-07-17 18:52:52.626309
REQUEST 13 2023-07-17 18:52:52.626814
RELEASED 12 2023-07-17 18:52:52.637241
GRANTED 14 2023-07-17 18:52:52.637241
REQUEST 12 2023-07-17 18:52:52.637746
RELEASED 14 2023-07-17 18:52:52.648744
GRANTED 15 2023-07-17 18:52:52.650568
REQUEST 14 2023-07-17 18:52:52.651845
RELEASED 15 2023-07-17 18:52:52.678017
GRANTED 16 2023-07-17 18:52:52.678017
REQUEST 15 2023-07-17 18:52:52.678522
RELEASED 16 2023-07-17 18:52:52.687989
GRANTED 18 2023-07-17 18:52:52.688492
REQUEST 16 2023-07-17 18:52:52.688996
RELEASED 18 2023-07-17 18:52:52.699259
GRANTED 17 2023-07-17 18:52:52.699766
REQUEST 18 2023-07-17 18:52:52.699838
RELEASED 17 2023-07-17 18:52:52.708524
GRANTED 19 2023-07-17 18:52:52.709023
REQUEST 17 2023-07-17 18:52:52.709526
RELEASED 19 2023-07-17 18:52:52.721918
GRANTED 20 2023-07-17 18:52:52.722946
REQUEST 19 2023-07-17 18:52:52.723538
RELEASED 20 2023-07-17 18:52:52.732335
GRANTED 0 2023-07-17 18:52:52.732335
REQUEST 20 2023-07-17 18:52:52.732842
RELEASED 0 2023-07-17 18:52:52.741067
GRANTED 21 2023-07-17 18:52:52.741576
RELEASED 21 2023-07-17 18:52:52.762542
GRANTED 22 2023-07-17 18:52:52.763540
REQUEST 21 2023-07-17 18:52:52.764047
RELEASED 22 2023-07-17 18:52:52.783630
GRANTED 23 2023-07-17 18:52:52.784134
REQUEST 22 2023-07-17 18:52:52.784638
RELEASED 23 2023-07-17 18:52:52.796901
GRANTED 24 2023-07-17 18:52:52.797407
REQUEST 23 2023-07-17 18:52:52.797929
RELEASED 24 2023-07-17 18:52:52.809195
GRANTED 25 2023-07-17 18:52:52.809699
REQUEST 24 2023-07-17 18:52:52.810223
RELEASED 25 2023-07-17 18:52:52.819517
GRANTED 26 2023-07-17 18:52:52.820023
REQUEST 25 2023-07-17 18:52:52.820023
RELEASED 26 2023-07-17 18:52:52.839847
GRANTED 27 2023-07-17 18:52:52.839847
REQUEST 26 2023-07-17 18:52:52.840351
RELEASED 27 2023-07-17 18:52:52.848947

GRANTED 29 2023-07-17 18:52:52.849456
REQUEST 27 2023-07-17 18:52:52.850004
RELEASED 29 2023-07-17 18:52:52.872443
GRANTED 28 2023-07-17 18:52:52.872948
REQUEST 29 2023-07-17 18:52:52.872948
RELEASED 28 2023-07-17 18:52:52.883923
GRANTED 30 2023-07-17 18:52:52.884427
REQUEST 28 2023-07-17 18:52:52.884490
RELEASED 30 2023-07-17 18:52:52.895349
GRANTED 31 2023-07-17 18:52:52.896393
REQUEST 30 2023-07-17 18:52:52.897467
RELEASED 31 2023-07-17 18:52:52.918470
GRANTED 32 2023-07-17 18:52:52.918975
REQUEST 31 2023-07-17 18:52:52.919518
RELEASED 32 2023-07-17 18:52:52.929867
GRANTED 33 2023-07-17 18:52:52.930392
REQUEST 32 2023-07-17 18:52:52.932162
RELEASED 33 2023-07-17 18:52:52.956874
GRANTED 35 2023-07-17 18:52:52.956874
REQUEST 33 2023-07-17 18:52:52.957379
RELEASED 35 2023-07-17 18:52:52.987493
GRANTED 34 2023-07-17 18:52:52.989844
REQUEST 35 2023-07-17 18:52:52.997940
RELEASED 34 2023-07-17 18:52:52.023431
GRANTED 36 2023-07-17 18:52:52.025044
REQUEST 34 2023-07-17 18:52:52.026312
RELEASED 36 2023-07-17 18:52:52.048432
GRANTED 37 2023-07-17 18:52:52.050046
REQUEST 36 2023-07-17 18:52:52.050653
RELEASED 37 2023-07-17 18:52:52.073244
GRANTED 1 2023-07-17 18:52:52.073754
REQUEST 37 2023-07-17 18:52:52.074258
RELEASED 1 2023-07-17 18:52:52.084716
GRANTED 38 2023-07-17 18:52:52.085223
RELEASED 38 2023-07-17 18:52:52.103615
GRANTED 39 2023-07-17 18:52:52.103615
REQUEST 38 2023-07-17 18:52:52.104119
RELEASED 39 2023-07-17 18:52:52.126260
GRANTED 40 2023-07-17 18:52:52.126765
REQUEST 39 2023-07-17 18:52:52.126765
RELEASED 40 2023-07-17 18:52:52.142520
GRANTED 41 2023-07-17 18:52:52.143053
REQUEST 40 2023-07-17 18:52:52.143650
RELEASED 41 2023-07-17 18:52:52.160991
GRANTED 42 2023-07-17 18:52:52.161498
REQUEST 41 2023-07-17 18:52:52.162586
RELEASED 42 2023-07-17 18:52:52.181225
GRANTED 43 2023-07-17 18:52:52.182215
REQUEST 42 2023-07-17 18:52:52.182215
RELEASED 43 2023-07-17 18:52:52.189634
GRANTED 44 2023-07-17 18:52:52.189634
REQUEST 43 2023-07-17 18:52:52.190139
RELEASED 44 2023-07-17 18:52:52.214612
GRANTED 46 2023-07-17 18:52:52.215119
REQUEST 44 2023-07-17 18:52:52.215261

RELEASED 46 2023-07-17 18:52:52.226638
GRANTED 45 2023-07-17 18:52:52.227689
REQUEST 46 2023-07-17 18:52:52.228804
RELEASED 45 2023-07-17 18:52:52.239815
GRANTED 47 2023-07-17 18:52:52.239815
REQUEST 45 2023-07-17 18:52:52.240321
RELEASED 47 2023-07-17 18:52:52.263847
GRANTED 48 2023-07-17 18:52:52.263847
REQUEST 47 2023-07-17 18:52:52.264353
RELEASED 48 2023-07-17 18:52:52.276196
GRANTED 50 2023-07-17 18:52:52.276693
REQUEST 48 2023-07-17 18:52:52.277200
RELEASED 50 2023-07-17 18:53:53.296112
GRANTED 49 2023-07-17 18:53:53.296839
REQUEST 50 2023-07-17 18:53:53.297346
RELEASED 49 2023-07-17 18:53:53.316617
GRANTED 51 2023-07-17 18:53:53.316617
REQUEST 49 2023-07-17 18:53:53.317123
RELEASED 51 2023-07-17 18:53:53.336495
GRANTED 54 2023-07-17 18:53:53.338510
REQUEST 51 2023-07-17 18:53:53.340703
RELEASED 54 2023-07-17 18:53:53.366081
GRANTED 53 2023-07-17 18:53:53.366586
REQUEST 54 2023-07-17 18:53:53.366586
RELEASED 53 2023-07-17 18:53:53.374666
GRANTED 2 2023-07-17 18:53:53.375234
REQUEST 53 2023-07-17 18:53:53.376320
RELEASED 2 2023-07-17 18:53:53.397303
GRANTED 55 2023-07-17 18:53:53.397755
RELEASED 55 2023-07-17 18:53:53.418524
GRANTED 52 2023-07-17 18:53:53.419036
REQUEST 55 2023-07-17 18:53:53.419542
RELEASED 52 2023-07-17 18:53:53.432363
GRANTED 56 2023-07-17 18:53:53.433363
REQUEST 52 2023-07-17 18:53:53.433870
RELEASED 56 2023-07-17 18:53:53.447142
GRANTED 58 2023-07-17 18:53:53.447142
REQUEST 56 2023-07-17 18:53:53.447648
RELEASED 58 2023-07-17 18:53:53.457377
GRANTED 57 2023-07-17 18:53:53.457377
REQUEST 58 2023-07-17 18:53:53.458408
RELEASED 57 2023-07-17 18:53:53.483379
GRANTED 60 2023-07-17 18:53:53.486136
REQUEST 57 2023-07-17 18:53:53.490052
RELEASED 60 2023-07-17 18:53:53.511545
GRANTED 59 2023-07-17 18:53:53.511545
REQUEST 60 2023-07-17 18:53:53.512051
RELEASED 59 2023-07-17 18:53:53.521858
GRANTED 61 2023-07-17 18:53:53.522365
REQUEST 59 2023-07-17 18:53:53.522888
RELEASED 61 2023-07-17 18:53:53.534727
GRANTED 62 2023-07-17 18:53:53.535851
REQUEST 61 2023-07-17 18:53:53.536440
RELEASED 62 2023-07-17 18:53:53.548984
GRANTED 63 2023-07-17 18:53:53.548984

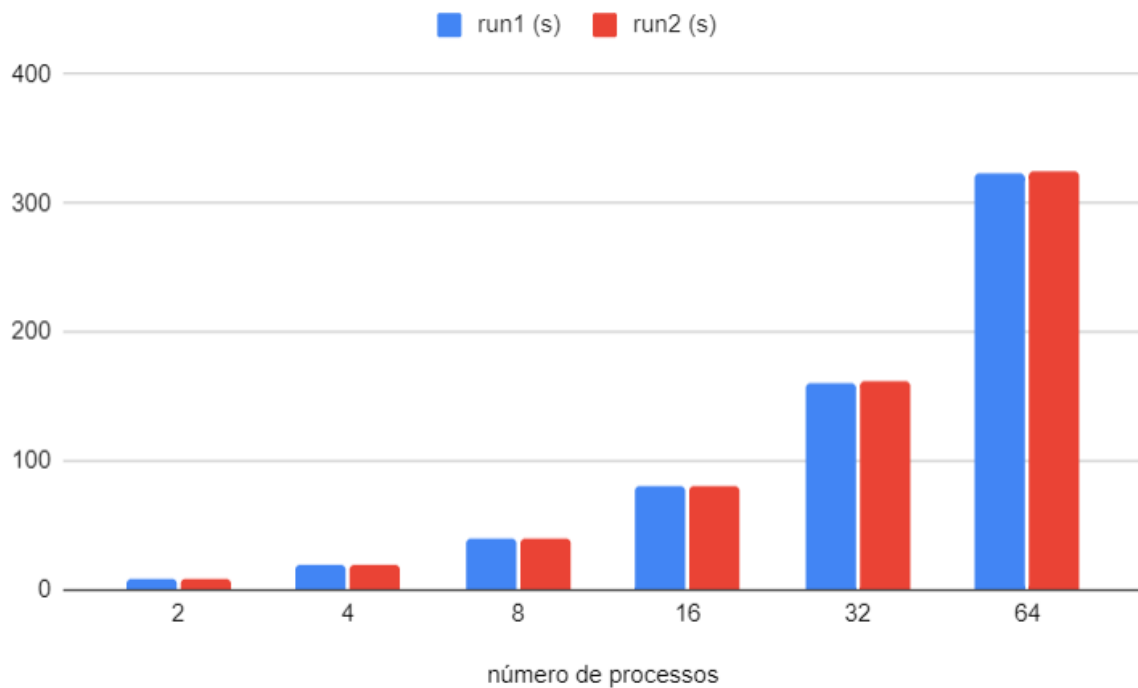
REQUEST 62 2023-07-17 18:53:53.549488
RELEASED 63 2023-07-17 18:53:53.564249
GRANTED 3 2023-07-17 18:53:53.565390
REQUEST 63 2023-07-17 18:53:53.565571
RELEASED 3 2023-07-17 18:53:53.577799
GRANTED 5 2023-07-17 18:53:53.577799
RELEASED 5 2023-07-17 18:53:53.593823
GRANTED 4 2023-07-17 18:53:53.594578
RELEASED 4 2023-07-17 18:53:53.619396
GRANTED 6 2023-07-17 18:53:53.619396
RELEASED 6 2023-07-17 18:53:53.635956
GRANTED 8 2023-07-17 18:53:53.636338
RELEASED 8 2023-07-17 18:53:53.649635
GRANTED 9 2023-07-17 18:53:53.650728
RELEASED 9 2023-07-17 18:53:53.673702
GRANTED 7 2023-07-17 18:53:53.673702
RELEASED 7 2023-07-17 18:53:53.696946
GRANTED 10 2023-07-17 18:53:53.697605
RELEASED 10 2023-07-17 18:53:53.716298
GRANTED 11 2023-07-17 18:53:53.716759
RELEASED 11 2023-07-17 18:53:53.729789
GRANTED 13 2023-07-17 18:53:53.730322
RELEASED 13 2023-07-17 18:53:53.756642
GRANTED 12 2023-07-17 18:53:53.757148
RELEASED 12 2023-07-17 18:53:53.779989
GRANTED 14 2023-07-17 18:53:53.779989
RELEASED 14 2023-07-17 18:53:53.788717
GRANTED 15 2023-07-17 18:53:53.789221
RELEASED 15 2023-07-17 18:53:53.799394
GRANTED 16 2023-07-17 18:53:53.799900
RELEASED 16 2023-07-17 18:53:53.809596
GRANTED 18 2023-07-17 18:53:53.809596
RELEASED 18 2023-07-17 18:53:53.835728
GRANTED 17 2023-07-17 18:53:53.837513
RELEASED 17 2023-07-17 18:53:53.863886
GRANTED 19 2023-07-17 18:53:53.864442
RELEASED 19 2023-07-17 18:53:53.875646
GRANTED 20 2023-07-17 18:53:53.875646
RELEASED 20 2023-07-17 18:53:53.886918
GRANTED 21 2023-07-17 18:53:53.887426
RELEASED 21 2023-07-17 18:53:53.900772
GRANTED 22 2023-07-17 18:53:53.901207
RELEASED 22 2023-07-17 18:53:53.917660
GRANTED 23 2023-07-17 18:53:53.918664
RELEASED 23 2023-07-17 18:53:53.942234
GRANTED 24 2023-07-17 18:53:53.942234
RELEASED 24 2023-07-17 18:53:53.954416
GRANTED 25 2023-07-17 18:53:53.955142
RELEASED 25 2023-07-17 18:53:53.970395
GRANTED 26 2023-07-17 18:53:53.970395
RELEASED 26 2023-07-17 18:53:53.980580
GRANTED 27 2023-07-17 18:53:53.980983
RELEASED 27 2023-07-17 18:53:53.991076
GRANTED 29 2023-07-17 18:53:53.992032
RELEASED 29 2023-07-17 18:53:53.004778

GRANTED 28 2023-07-17 18:53:53.005391
RELEASED 28 2023-07-17 18:53:53.019888
GRANTED 30 2023-07-17 18:53:53.019888
RELEASED 30 2023-07-17 18:53:53.030490
GRANTED 31 2023-07-17 18:53:53.030948
RELEASED 31 2023-07-17 18:53:53.046124
GRANTED 32 2023-07-17 18:53:53.047041
RELEASED 32 2023-07-17 18:53:53.057423
GRANTED 33 2023-07-17 18:53:53.057423
RELEASED 33 2023-07-17 18:53:53.073920
GRANTED 35 2023-07-17 18:53:53.074425
RELEASED 35 2023-07-17 18:53:53.085855
GRANTED 34 2023-07-17 18:53:53.086413
RELEASED 34 2023-07-17 18:53:53.098954
GRANTED 36 2023-07-17 18:53:53.098954
RELEASED 36 2023-07-17 18:53:53.114558
GRANTED 37 2023-07-17 18:53:53.114558
RELEASED 37 2023-07-17 18:53:53.127428
GRANTED 38 2023-07-17 18:53:53.128240
RELEASED 38 2023-07-17 18:53:53.140544
GRANTED 39 2023-07-17 18:53:53.141026
RELEASED 39 2023-07-17 18:53:53.155292
GRANTED 40 2023-07-17 18:53:53.155798
RELEASED 40 2023-07-17 18:53:53.199002
GRANTED 41 2023-07-17 18:53:53.201396
RELEASED 41 2023-07-17 18:53:53.221290
GRANTED 42 2023-07-17 18:53:53.223256
RELEASED 42 2023-07-17 18:53:53.243230
GRANTED 43 2023-07-17 18:53:53.243620
RELEASED 43 2023-07-17 18:53:53.256351
GRANTED 44 2023-07-17 18:53:53.256717
RELEASED 44 2023-07-17 18:53:53.267235
GRANTED 46 2023-07-17 18:53:53.267614
RELEASED 46 2023-07-17 18:53:53.283292
GRANTED 45 2023-07-17 18:53:53.283807
RELEASED 45 2023-07-17 18:54:54.296633
GRANTED 47 2023-07-17 18:54:54.297038
RELEASED 47 2023-07-17 18:54:54.313652
GRANTED 48 2023-07-17 18:54:54.313652
RELEASED 48 2023-07-17 18:54:54.324531
GRANTED 50 2023-07-17 18:54:54.325037
RELEASED 50 2023-07-17 18:54:54.330441
GRANTED 49 2023-07-17 18:54:54.331382
RELEASED 49 2023-07-17 18:54:54.347816
GRANTED 51 2023-07-17 18:54:54.347816
RELEASED 51 2023-07-17 18:54:54.359274
GRANTED 54 2023-07-17 18:54:54.359779
RELEASED 54 2023-07-17 18:54:54.367313
GRANTED 53 2023-07-17 18:54:54.368270
RELEASED 53 2023-07-17 18:54:54.377329
GRANTED 55 2023-07-17 18:54:54.377667
RELEASED 55 2023-07-17 18:54:54.386694
GRANTED 52 2023-07-17 18:54:54.386694
RELEASED 52 2023-07-17 18:54:54.398398
GRANTED 56 2023-07-17 18:54:54.398398

```

RELEASED 56 2023-07-17 18:54:54.413538
GRANTED 58 2023-07-17 18:54:54.414489
RELEASED 58 2023-07-17 18:54:54.426030
GRANTED 57 2023-07-17 18:54:54.426030
RELEASED 57 2023-07-17 18:54:54.440779
GRANTED 60 2023-07-17 18:54:54.441289
RELEASED 60 2023-07-17 18:54:54.450537
GRANTED 59 2023-07-17 18:54:54.450537
RELEASED 59 2023-07-17 18:54:54.464281
GRANTED 61 2023-07-17 18:54:54.465157
RELEASED 61 2023-07-17 18:54:54.477580
GRANTED 62 2023-07-17 18:54:54.477912
RELEASED 62 2023-07-17 18:54:54.488109
GRANTED 63 2023-07-17 18:54:54.488613
RELEASED 63 2023-07-17 18:54:54.502517

```



▼ Test 3 de escalabilidade do sistema.

▼ $n = 2$, $r = 3$, e $k = 0 - 0,035$ segundo

▼ results.txt (6 linhas 2x3)

```

Process Id: 0 - 2023-07-17 18:59:44.013432
Process Id: 0 - 2023-07-17 18:59:44.016245
Process Id: 0 - 2023-07-17 18:59:44.022492
Process Id: 1 - 2023-07-17 18:59:44.029043

```

```
Process Id: 1 - 2023-07-17 18:59:44.036521
Process Id: 1 - 2023-07-17 18:59:44.047951
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 18:59:59.011667
GRANTED 0 2023-07-17 18:59:59.012177
RELEASED 0 2023-07-17 18:59:59.014655
REQUEST 0 2023-07-17 18:59:59.015162
GRANTED 0 2023-07-17 18:59:59.015741
RELEASED 0 2023-07-17 18:59:59.020917
REQUEST 0 2023-07-17 18:59:59.021433
GRANTED 0 2023-07-17 18:59:59.021955
REQUEST 1 2023-07-17 18:59:59.026409
RELEASED 0 2023-07-17 18:59:59.028011
GRANTED 1 2023-07-17 18:59:59.028011
RELEASED 1 2023-07-17 18:59:59.034440
REQUEST 1 2023-07-17 18:59:59.035473
GRANTED 1 2023-07-17 18:59:59.035473
RELEASED 1 2023-07-17 18:59:59.041527
REQUEST 1 2023-07-17 18:59:59.043034
GRANTED 1 2023-07-17 18:59:59.046881
RELEASED 1 2023-07-17 18:59:59.052848
```

▼ **n = 4, r = 3, e k = 0 - 0,083** segundos

▼ results.txt (12 linhas 4x3)

```
Process Id: 0 - 2023-07-17 19:00:30.078617
Process Id: 0 - 2023-07-17 19:00:30.081265
Process Id: 0 - 2023-07-17 19:00:30.089574
Process Id: 1 - 2023-07-17 19:00:30.096996
Process Id: 1 - 2023-07-17 19:00:30.104460
Process Id: 2 - 2023-07-17 19:00:30.114859
Process Id: 1 - 2023-07-17 19:00:30.121958
Process Id: 2 - 2023-07-17 19:00:30.127984
Process Id: 3 - 2023-07-17 19:00:30.135602
Process Id: 2 - 2023-07-17 19:00:30.143774
Process Id: 3 - 2023-07-17 19:00:30.152624
Process Id: 3 - 2023-07-17 19:00:30.161434
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 19:00:00.076561
```

```

GRANTED 0 2023-07-17 19:00:00.077582
RELEASED 0 2023-07-17 19:00:00.079471
REQUEST 0 2023-07-17 19:00:00.080236
GRANTED 0 2023-07-17 19:00:00.080236
RELEASED 0 2023-07-17 19:00:00.088151
REQUEST 0 2023-07-17 19:00:00.088657
GRANTED 0 2023-07-17 19:00:00.089016
REQUEST 1 2023-07-17 19:00:00.093391
RELEASED 0 2023-07-17 19:00:00.095850
GRANTED 1 2023-07-17 19:00:00.095850
RELEASED 1 2023-07-17 19:00:00.102341
REQUEST 1 2023-07-17 19:00:00.103429
GRANTED 1 2023-07-17 19:00:00.103429
REQUEST 2 2023-07-17 19:00:00.108802
RELEASED 1 2023-07-17 19:00:00.110361
GRANTED 2 2023-07-17 19:00:00.114225
REQUEST 1 2023-07-17 19:00:00.114859
RELEASED 2 2023-07-17 19:00:00.120371
GRANTED 1 2023-07-17 19:00:00.120935
REQUEST 2 2023-07-17 19:00:00.121440
REQUEST 3 2023-07-17 19:00:00.123936
RELEASED 1 2023-07-17 19:00:00.127045
GRANTED 2 2023-07-17 19:00:00.127465
RELEASED 2 2023-07-17 19:00:00.134040
GRANTED 3 2023-07-17 19:00:00.134974
REQUEST 2 2023-07-17 19:00:00.135094
RELEASED 3 2023-07-17 19:00:00.142137
GRANTED 2 2023-07-17 19:00:00.142642
REQUEST 3 2023-07-17 19:00:00.143267
RELEASED 2 2023-07-17 19:00:00.150511
GRANTED 3 2023-07-17 19:00:00.152078
RELEASED 3 2023-07-17 19:00:00.159172
REQUEST 3 2023-07-17 19:00:00.160083
GRANTED 3 2023-07-17 19:00:00.160394
RELEASED 3 2023-07-17 19:00:00.168955

```

▼ **n = 8, r = 3, e k = 0 - 0,210 segundos**

▼ results.txt (24 linhas 8x3)

```

Process Id: 0 - 2023-07-17 19:01:03.917713
Process Id: 1 - 2023-07-17 19:01:03.919607
Process Id: 0 - 2023-07-17 19:01:03.925551
Process Id: 1 - 2023-07-17 19:01:03.930986
Process Id: 0 - 2023-07-17 19:01:03.937202
Process Id: 1 - 2023-07-17 19:01:03.943384
Process Id: 2 - 2023-07-17 19:01:03.951473
Process Id: 2 - 2023-07-17 19:01:03.959070
Process Id: 2 - 2023-07-17 19:01:03.968929
Process Id: 3 - 2023-07-17 19:01:03.995596
Process Id: 3 - 2023-07-17 19:01:04.004494
Process Id: 3 - 2023-07-17 19:01:04.011070

```

```
Process Id: 4 - 2023-07-17 19:01:04.042446
Process Id: 5 - 2023-07-17 19:01:04.049738
Process Id: 4 - 2023-07-17 19:01:04.057700
Process Id: 6 - 2023-07-17 19:01:04.064523
Process Id: 5 - 2023-07-17 19:01:04.072428
Process Id: 4 - 2023-07-17 19:01:04.080273
Process Id: 7 - 2023-07-17 19:01:04.088642
Process Id: 6 - 2023-07-17 19:01:04.095732
Process Id: 5 - 2023-07-17 19:01:04.104447
Process Id: 7 - 2023-07-17 19:01:04.111371
Process Id: 6 - 2023-07-17 19:01:04.120752
Process Id: 7 - 2023-07-17 19:01:04.127589
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 19:01:01.916074
GRANTED 0 2023-07-17 19:01:01.916661
REQUEST 1 2023-07-17 19:01:01.917185
RELEASED 0 2023-07-17 19:01:01.917713
GRANTED 1 2023-07-17 19:01:01.918571
REQUEST 0 2023-07-17 19:01:01.919077
RELEASED 1 2023-07-17 19:01:01.923667
GRANTED 0 2023-07-17 19:01:01.924495
REQUEST 1 2023-07-17 19:01:01.925001
RELEASED 0 2023-07-17 19:01:01.929853
GRANTED 1 2023-07-17 19:01:01.929853
REQUEST 0 2023-07-17 19:01:01.930359
RELEASED 1 2023-07-17 19:01:01.936695
GRANTED 0 2023-07-17 19:01:01.936695
REQUEST 1 2023-07-17 19:01:01.937202
RELEASED 0 2023-07-17 19:01:01.940767
GRANTED 1 2023-07-17 19:01:01.942276
REQUEST 2 2023-07-17 19:01:01.947480
RELEASED 1 2023-07-17 19:01:01.949580
GRANTED 2 2023-07-17 19:01:01.950225
RELEASED 2 2023-07-17 19:01:01.957190
REQUEST 2 2023-07-17 19:01:01.958013
GRANTED 2 2023-07-17 19:01:01.958013
RELEASED 2 2023-07-17 19:01:01.965661
REQUEST 2 2023-07-17 19:01:01.967419
GRANTED 2 2023-07-17 19:01:01.968343
RELEASED 2 2023-07-17 19:01:01.975527
REQUEST 3 2023-07-17 19:01:01.994303
GRANTED 3 2023-07-17 19:01:01.994303
RELEASED 3 2023-07-17 19:01:01.002110
REQUEST 3 2023-07-17 19:01:01.003385
GRANTED 3 2023-07-17 19:01:01.003385
RELEASED 3 2023-07-17 19:01:01.009502
REQUEST 3 2023-07-17 19:01:01.010250
GRANTED 3 2023-07-17 19:01:01.010564
RELEASED 3 2023-07-17 19:01:01.018108
```

```

REQUEST 4 2023-07-17 19:01:01.041094
GRANTED 4 2023-07-17 19:01:01.041094
REQUEST 5 2023-07-17 19:01:01.041931
RELEASED 4 2023-07-17 19:01:01.047983
GRANTED 5 2023-07-17 19:01:01.048874
REQUEST 4 2023-07-17 19:01:01.049738
REQUEST 6 2023-07-17 19:01:01.056058
RELEASED 5 2023-07-17 19:01:01.056596
GRANTED 4 2023-07-17 19:01:01.057190
REQUEST 5 2023-07-17 19:01:01.057190
RELEASED 4 2023-07-17 19:01:01.063206
GRANTED 6 2023-07-17 19:01:01.063712
REQUEST 4 2023-07-17 19:01:01.063892
RELEASED 6 2023-07-17 19:01:01.070818
GRANTED 5 2023-07-17 19:01:01.071334
REQUEST 7 2023-07-17 19:01:01.071919
REQUEST 6 2023-07-17 19:01:01.072428
RELEASED 5 2023-07-17 19:01:01.079143
GRANTED 4 2023-07-17 19:01:01.079143
REQUEST 5 2023-07-17 19:01:01.079652
RELEASED 4 2023-07-17 19:01:01.086809
GRANTED 7 2023-07-17 19:01:01.087222
RELEASED 7 2023-07-17 19:01:01.094667
GRANTED 6 2023-07-17 19:01:01.094667
REQUEST 7 2023-07-17 19:01:01.095226
RELEASED 6 2023-07-17 19:01:01.102869
GRANTED 5 2023-07-17 19:01:01.103380
REQUEST 6 2023-07-17 19:01:01.103905
RELEASED 5 2023-07-17 19:01:01.109977
GRANTED 7 2023-07-17 19:01:01.110308
RELEASED 7 2023-07-17 19:01:01.119659
GRANTED 6 2023-07-17 19:01:01.120164
REQUEST 7 2023-07-17 19:01:01.120164
RELEASED 6 2023-07-17 19:01:01.126551
GRANTED 7 2023-07-17 19:01:01.126551
RELEASED 7 2023-07-17 19:01:01.135652

```

▼ **n = 16, r = 3, e k = 0 - 0,728 segundos**

▼ **results.txt (48 linhas 16x3)**

```

Process Id: 0 - 2023-07-17 19:01:30.208954
Process Id: 0 - 2023-07-17 19:01:30.211787
Process Id: 0 - 2023-07-17 19:01:30.218920
Process Id: 1 - 2023-07-17 19:01:30.254829
Process Id: 1 - 2023-07-17 19:01:30.260902
Process Id: 1 - 2023-07-17 19:01:30.270870
Process Id: 2 - 2023-07-17 19:01:30.276833
Process Id: 2 - 2023-07-17 19:01:30.287499
Process Id: 3 - 2023-07-17 19:01:30.295120
Process Id: 2 - 2023-07-17 19:01:30.305883
Process Id: 3 - 2023-07-17 19:01:30.312515

```

```
Process Id: 3 - 2023-07-17 19:01:30.325391
Process Id: 4 - 2023-07-17 19:01:30.346440
Process Id: 4 - 2023-07-17 19:01:30.356438
Process Id: 5 - 2023-07-17 19:01:30.364233
Process Id: 4 - 2023-07-17 19:01:30.371970
Process Id: 5 - 2023-07-17 19:01:30.378936
Process Id: 5 - 2023-07-17 19:01:30.388649
Process Id: 6 - 2023-07-17 19:01:30.461110
Process Id: 7 - 2023-07-17 19:01:30.477721
Process Id: 6 - 2023-07-17 19:01:30.487435
Process Id: 7 - 2023-07-17 19:01:30.495412
Process Id: 6 - 2023-07-17 19:01:30.503180
Process Id: 7 - 2023-07-17 19:01:30.509442
Process Id: 8 - 2023-07-17 19:01:30.618212
Process Id: 8 - 2023-07-17 19:01:30.625564
Process Id: 8 - 2023-07-17 19:01:30.633492
Process Id: 9 - 2023-07-17 19:01:30.714039
Process Id: 9 - 2023-07-17 19:01:30.721144
Process Id: 9 - 2023-07-17 19:01:30.729024
Process Id: 11 - 2023-07-17 19:01:30.736537
Process Id: 11 - 2023-07-17 19:01:30.745439
Process Id: 10 - 2023-07-17 19:01:30.752479
Process Id: 11 - 2023-07-17 19:01:30.759709
Process Id: 10 - 2023-07-17 19:01:30.766659
Process Id: 10 - 2023-07-17 19:01:30.775749
Process Id: 12 - 2023-07-17 19:01:30.792582
Process Id: 12 - 2023-07-17 19:01:30.805633
Process Id: 12 - 2023-07-17 19:01:30.816626
Process Id: 13 - 2023-07-17 19:01:30.839346
Process Id: 13 - 2023-07-17 19:01:30.851165
Process Id: 13 - 2023-07-17 19:01:30.860875
Process Id: 14 - 2023-07-17 19:01:30.872107
Process Id: 14 - 2023-07-17 19:01:30.879879
Process Id: 14 - 2023-07-17 19:01:30.890926
Process Id: 15 - 2023-07-17 19:01:30.917692
Process Id: 15 - 2023-07-17 19:01:30.927391
Process Id: 15 - 2023-07-17 19:01:30.936923
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 19:01:01.206673
GRANTED 0 2023-07-17 19:01:01.207703
RELEASED 0 2023-07-17 19:01:01.210000
REQUEST 0 2023-07-17 19:01:01.210507
GRANTED 0 2023-07-17 19:01:01.210765
RELEASED 0 2023-07-17 19:01:01.217606
REQUEST 0 2023-07-17 19:01:01.218112
GRANTED 0 2023-07-17 19:01:01.218414
RELEASED 0 2023-07-17 19:01:01.224535
REQUEST 1 2023-07-17 19:01:01.253064
GRANTED 1 2023-07-17 19:01:01.253591
```


RELEASED 1 2023-07-17 19:01:01.259338
REQUEST 1 2023-07-17 19:01:01.259853
GRANTED 1 2023-07-17 19:01:01.260376
RELEASED 1 2023-07-17 19:01:01.265566
REQUEST 1 2023-07-17 19:01:01.266474
GRANTED 1 2023-07-17 19:01:01.270344
REQUEST 2 2023-07-17 19:01:01.270870
RELEASED 1 2023-07-17 19:01:01.275804
GRANTED 2 2023-07-17 19:01:01.275804
RELEASED 2 2023-07-17 19:01:01.282891
REQUEST 2 2023-07-17 19:01:01.285786
GRANTED 2 2023-07-17 19:01:01.286960
REQUEST 3 2023-07-17 19:01:01.286960
RELEASED 2 2023-07-17 19:01:01.293382
GRANTED 3 2023-07-17 19:01:01.293888
REQUEST 2 2023-07-17 19:01:01.294614
RELEASED 3 2023-07-17 19:01:01.303177
GRANTED 2 2023-07-17 19:01:01.304258
REQUEST 3 2023-07-17 19:01:01.304765
RELEASED 2 2023-07-17 19:01:01.310398
GRANTED 3 2023-07-17 19:01:01.310398
RELEASED 3 2023-07-17 19:01:01.320535
REQUEST 3 2023-07-17 19:01:01.322536
GRANTED 3 2023-07-17 19:01:01.323770
RELEASED 3 2023-07-17 19:01:01.330940
REQUEST 4 2023-07-17 19:01:01.345151
GRANTED 4 2023-07-17 19:01:01.345269
RELEASED 4 2023-07-17 19:01:01.353494
REQUEST 4 2023-07-17 19:01:01.355409
GRANTED 4 2023-07-17 19:01:01.355914
REQUEST 5 2023-07-17 19:01:01.360514
RELEASED 4 2023-07-17 19:01:01.362028
GRANTED 5 2023-07-17 19:01:01.363119
REQUEST 4 2023-07-17 19:01:01.363728
RELEASED 5 2023-07-17 19:01:01.370947
GRANTED 4 2023-07-17 19:01:01.370947
REQUEST 5 2023-07-17 19:01:01.371455
RELEASED 4 2023-07-17 19:01:01.377907
GRANTED 5 2023-07-17 19:01:01.377907
RELEASED 5 2023-07-17 19:01:01.386470
REQUEST 5 2023-07-17 19:01:01.387056
GRANTED 5 2023-07-17 19:01:01.387591
RELEASED 5 2023-07-17 19:01:01.395173
REQUEST 6 2023-07-17 19:01:01.458630
GRANTED 6 2023-07-17 19:01:01.459637
REQUEST 7 2023-07-17 19:01:01.469870
RELEASED 6 2023-07-17 19:01:01.475496
GRANTED 7 2023-07-17 19:01:01.476108
REQUEST 6 2023-07-17 19:01:01.476622
RELEASED 7 2023-07-17 19:01:01.486260
GRANTED 6 2023-07-17 19:01:01.486772
REQUEST 7 2023-07-17 19:01:01.486772
RELEASED 6 2023-07-17 19:01:01.493475
GRANTED 7 2023-07-17 19:01:01.494800
REQUEST 6 2023-07-17 19:01:01.494905

RELEASED 7 2023-07-17 19:01:01.501835
GRANTED 6 2023-07-17 19:01:01.502144
REQUEST 7 2023-07-17 19:01:01.502648
RELEASED 6 2023-07-17 19:01:01.508396
GRANTED 7 2023-07-17 19:01:01.508396
RELEASED 7 2023-07-17 19:01:01.516274
REQUEST 8 2023-07-17 19:01:01.604282
GRANTED 8 2023-07-17 19:01:01.617043
RELEASED 8 2023-07-17 19:01:01.623936
REQUEST 8 2023-07-17 19:01:01.624972
GRANTED 8 2023-07-17 19:01:01.624972
RELEASED 8 2023-07-17 19:01:01.631075
REQUEST 8 2023-07-17 19:01:01.631936
GRANTED 8 2023-07-17 19:01:01.632441
RELEASED 8 2023-07-17 19:01:01.639506
REQUEST 9 2023-07-17 19:01:01.712488
GRANTED 9 2023-07-17 19:01:01.712993
RELEASED 9 2023-07-17 19:01:01.719083
REQUEST 9 2023-07-17 19:01:01.720640
GRANTED 9 2023-07-17 19:01:01.720640
RELEASED 9 2023-07-17 19:01:01.726885
REQUEST 9 2023-07-17 19:01:01.727909
GRANTED 9 2023-07-17 19:01:01.728439
REQUEST 11 2023-07-17 19:01:01.729024
RELEASED 9 2023-07-17 19:01:01.735479
GRANTED 11 2023-07-17 19:01:01.735479
RELEASED 11 2023-07-17 19:01:01.742048
REQUEST 11 2023-07-17 19:01:01.743786
GRANTED 11 2023-07-17 19:01:01.744747
REQUEST 10 2023-07-17 19:01:01.744934
RELEASED 11 2023-07-17 19:01:01.750999
GRANTED 10 2023-07-17 19:01:01.751974
REQUEST 11 2023-07-17 19:01:01.751974
RELEASED 10 2023-07-17 19:01:01.758017
GRANTED 11 2023-07-17 19:01:01.758475
REQUEST 10 2023-07-17 19:01:01.759709
RELEASED 11 2023-07-17 19:01:01.765628
GRANTED 10 2023-07-17 19:01:01.765628
RELEASED 10 2023-07-17 19:01:01.772583
REQUEST 10 2023-07-17 19:01:01.773089
GRANTED 10 2023-07-17 19:01:01.774537
RELEASED 10 2023-07-17 19:01:01.782779
REQUEST 12 2023-07-17 19:01:01.791021
GRANTED 12 2023-07-17 19:01:01.791529
RELEASED 12 2023-07-17 19:01:01.800591
REQUEST 12 2023-07-17 19:01:01.803225
GRANTED 12 2023-07-17 19:01:01.803455
RELEASED 12 2023-07-17 19:01:01.812677
REQUEST 12 2023-07-17 19:01:01.813407
GRANTED 12 2023-07-17 19:01:01.814139
RELEASED 12 2023-07-17 19:01:01.825470
REQUEST 13 2023-07-17 19:01:01.837797
GRANTED 13 2023-07-17 19:01:01.838303
RELEASED 13 2023-07-17 19:01:01.845413
REQUEST 13 2023-07-17 19:01:01.847539

```
GRANTED 13 2023-07-17 19:01:01.849140
RELEASED 13 2023-07-17 19:01:01.859252
REQUEST 13 2023-07-17 19:01:01.859812
GRANTED 13 2023-07-17 19:01:01.860369
RELEASED 13 2023-07-17 19:01:01.868387
REQUEST 14 2023-07-17 19:01:01.870549
GRANTED 14 2023-07-17 19:01:01.871070
RELEASED 14 2023-07-17 19:01:01.878301
REQUEST 14 2023-07-17 19:01:01.878808
GRANTED 14 2023-07-17 19:01:01.879343
RELEASED 14 2023-07-17 19:01:01.889378
REQUEST 14 2023-07-17 19:01:01.889884
GRANTED 14 2023-07-17 19:01:01.890403
RELEASED 14 2023-07-17 19:01:01.897652
REQUEST 15 2023-07-17 19:01:01.916075
GRANTED 15 2023-07-17 19:01:01.916647
RELEASED 15 2023-07-17 19:01:01.925428
REQUEST 15 2023-07-17 19:01:01.926306
GRANTED 15 2023-07-17 19:01:01.926812
RELEASED 15 2023-07-17 19:01:01.934609
REQUEST 15 2023-07-17 19:01:01.935645
GRANTED 15 2023-07-17 19:01:01.935895
RELEASED 15 2023-07-17 19:01:01.942510
```

▼ **n = 32, r = 3, e k = 0 - 2,019 segundos**

▼ results.txt (96 linhas 32x3)

```
Process Id: 1 - 2023-07-17 19:02:00.420772
Process Id: 1 - 2023-07-17 19:02:00.424581
Process Id: 0 - 2023-07-17 19:02:00.432183
Process Id: 1 - 2023-07-17 19:02:00.440489
Process Id: 0 - 2023-07-17 19:02:00.447499
Process Id: 0 - 2023-07-17 19:02:00.457320
Process Id: 2 - 2023-07-17 19:02:00.470939
Process Id: 2 - 2023-07-17 19:02:00.483209
Process Id: 2 - 2023-07-17 19:02:00.492943
Process Id: 3 - 2023-07-17 19:02:00.504154
Process Id: 3 - 2023-07-17 19:02:00.521879
Process Id: 4 - 2023-07-17 19:02:00.537663
Process Id: 3 - 2023-07-17 19:02:00.611975
Process Id: 4 - 2023-07-17 19:02:00.621721
Process Id: 4 - 2023-07-17 19:02:00.634245
Process Id: 5 - 2023-07-17 19:02:00.701240
Process Id: 5 - 2023-07-17 19:02:00.709444
Process Id: 5 - 2023-07-17 19:02:00.717713
Process Id: 6 - 2023-07-17 19:02:00.794546
Process Id: 6 - 2023-07-17 19:02:00.802305
Process Id: 6 - 2023-07-17 19:02:00.809764
Process Id: 8 - 2023-07-17 19:02:00.920583
Process Id: 7 - 2023-07-17 19:02:00.926572
Process Id: 8 - 2023-07-17 19:02:00.935552
```

Process Id: 7 - 2023-07-17 19:02:00.943924
Process Id: 8 - 2023-07-17 19:02:00.951608
Process Id: 7 - 2023-07-17 19:02:00.961222
Process Id: 10 - 2023-07-17 19:02:01.012816
Process Id: 10 - 2023-07-17 19:02:01.023184
Process Id: 9 - 2023-07-17 19:02:01.031824
Process Id: 10 - 2023-07-17 19:02:01.043339
Process Id: 9 - 2023-07-17 19:02:01.053907
Process Id: 9 - 2023-07-17 19:02:01.064035
Process Id: 11 - 2023-07-17 19:02:01.076623
Process Id: 11 - 2023-07-17 19:02:01.090518
Process Id: 11 - 2023-07-17 19:02:01.098805
Process Id: 12 - 2023-07-17 19:02:01.230583
Process Id: 12 - 2023-07-17 19:02:01.237767
Process Id: 12 - 2023-07-17 19:02:01.244977
Process Id: 13 - 2023-07-17 19:02:01.262305
Process Id: 13 - 2023-07-17 19:02:01.271837
Process Id: 13 - 2023-07-17 19:02:01.281827
Process Id: 14 - 2023-07-17 19:02:01.295702
Process Id: 14 - 2023-07-17 19:02:01.308803
Process Id: 14 - 2023-07-17 19:02:01.321026
Process Id: 16 - 2023-07-17 19:02:01.449711
Process Id: 15 - 2023-07-17 19:02:01.458869
Process Id: 16 - 2023-07-17 19:02:01.468117
Process Id: 15 - 2023-07-17 19:02:01.478174
Process Id: 16 - 2023-07-17 19:02:01.487906
Process Id: 15 - 2023-07-17 19:02:01.497938
Process Id: 17 - 2023-07-17 19:02:01.512412
Process Id: 17 - 2023-07-17 19:02:01.527850
Process Id: 17 - 2023-07-17 19:02:01.543922
Process Id: 18 - 2023-07-17 19:02:01.620882
Process Id: 18 - 2023-07-17 19:02:01.628134
Process Id: 18 - 2023-07-17 19:02:01.638561
Process Id: 19 - 2023-07-17 19:02:01.655104
Process Id: 19 - 2023-07-17 19:02:01.668665
Process Id: 19 - 2023-07-17 19:02:01.678979
Process Id: 20 - 2023-07-17 19:02:01.746254
Process Id: 20 - 2023-07-17 19:02:01.754925
Process Id: 20 - 2023-07-17 19:02:01.762204
Process Id: 21 - 2023-07-17 19:02:01.825676
Process Id: 21 - 2023-07-17 19:02:01.835535
Process Id: 21 - 2023-07-17 19:02:01.844294
Process Id: 22 - 2023-07-17 19:02:01.871908
Process Id: 22 - 2023-07-17 19:02:01.880497
Process Id: 22 - 2023-07-17 19:02:01.890238
Process Id: 23 - 2023-07-17 19:02:01.935711
Process Id: 23 - 2023-07-17 19:02:01.942229
Process Id: 23 - 2023-07-17 19:02:01.950785
Process Id: 24 - 2023-07-17 19:02:02.027455
Process Id: 24 - 2023-07-17 19:02:02.034113
Process Id: 24 - 2023-07-17 19:02:02.042026
Process Id: 25 - 2023-07-17 19:02:02.136439
Process Id: 25 - 2023-07-17 19:02:02.145053
Process Id: 26 - 2023-07-17 19:02:02.153296
Process Id: 25 - 2023-07-17 19:02:02.161030

```
Process Id: 26 - 2023-07-17 19:02:02.170422
Process Id: 26 - 2023-07-17 19:02:02.177574
Process Id: 27 - 2023-07-17 19:02:02.233916
Process Id: 27 - 2023-07-17 19:02:02.241877
Process Id: 27 - 2023-07-17 19:02:02.249867
Process Id: 28 - 2023-07-17 19:02:02.277014
Process Id: 28 - 2023-07-17 19:02:02.286251
Process Id: 28 - 2023-07-17 19:02:02.294414
Process Id: 29 - 2023-07-17 19:02:02.354595
Process Id: 29 - 2023-07-17 19:02:02.360766
Process Id: 29 - 2023-07-17 19:02:02.369616
Process Id: 30 - 2023-07-17 19:02:02.388092
Process Id: 30 - 2023-07-17 19:02:02.396290
Process Id: 30 - 2023-07-17 19:02:02.406517
Process Id: 31 - 2023-07-17 19:02:02.419897
Process Id: 31 - 2023-07-17 19:02:02.429188
Process Id: 31 - 2023-07-17 19:02:02.440199
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 1 2023-07-17 19:02:02.418832
GRANTED 1 2023-07-17 19:02:02.419689
RELEASED 1 2023-07-17 19:02:02.421802
REQUEST 1 2023-07-17 19:02:02.423609
GRANTED 1 2023-07-17 19:02:02.423771
REQUEST 0 2023-07-17 19:02:02.424581
RELEASED 1 2023-07-17 19:02:02.430673
GRANTED 0 2023-07-17 19:02:02.430673
REQUEST 1 2023-07-17 19:02:02.432183
RELEASED 0 2023-07-17 19:02:02.439257
GRANTED 1 2023-07-17 19:02:02.439835
REQUEST 0 2023-07-17 19:02:02.440342
RELEASED 1 2023-07-17 19:02:02.446431
GRANTED 0 2023-07-17 19:02:02.446952
RELEASED 0 2023-07-17 19:02:02.455124
REQUEST 0 2023-07-17 19:02:02.456284
GRANTED 0 2023-07-17 19:02:02.456792
RELEASED 0 2023-07-17 19:02:02.463376
REQUEST 2 2023-07-17 19:02:02.467998
GRANTED 2 2023-07-17 19:02:02.469333
RELEASED 2 2023-07-17 19:02:02.478481
REQUEST 2 2023-07-17 19:02:02.480467
GRANTED 2 2023-07-17 19:02:02.480978
RELEASED 2 2023-07-17 19:02:02.490749
REQUEST 2 2023-07-17 19:02:02.491774
GRANTED 2 2023-07-17 19:02:02.492376
REQUEST 3 2023-07-17 19:02:02.497931
RELEASED 2 2023-07-17 19:02:02.500187
GRANTED 3 2023-07-17 19:02:02.501698
RELEASED 3 2023-07-17 19:02:02.514202
REQUEST 3 2023-07-17 19:02:02.518869
```

GRANTED 3 2023-07-17 19:02:02.520880
REQUEST 4 2023-07-17 19:02:02.529128
RELEASED 3 2023-07-17 19:02:02.530514
GRANTED 4 2023-07-17 19:02:02.531023
REQUEST 3 2023-07-17 19:02:02.532559
RELEASED 4 2023-07-17 19:02:02.610423
GRANTED 3 2023-07-17 19:02:02.610929
REQUEST 4 2023-07-17 19:02:02.611975
RELEASED 3 2023-07-17 19:02:02.619843
GRANTED 4 2023-07-17 19:02:02.620665
RELEASED 4 2023-07-17 19:02:02.629744
REQUEST 4 2023-07-17 19:02:02.631159
GRANTED 4 2023-07-17 19:02:02.632254
RELEASED 4 2023-07-17 19:02:02.655365
REQUEST 5 2023-07-17 19:02:02.699535
GRANTED 5 2023-07-17 19:02:02.700044
RELEASED 5 2023-07-17 19:02:02.707874
REQUEST 5 2023-07-17 19:02:02.708379
GRANTED 5 2023-07-17 19:02:02.708908
RELEASED 5 2023-07-17 19:02:02.715428
REQUEST 5 2023-07-17 19:02:02.716664
GRANTED 5 2023-07-17 19:02:02.717172
RELEASED 5 2023-07-17 19:02:02.722784
REQUEST 6 2023-07-17 19:02:02.792999
GRANTED 6 2023-07-17 19:02:02.793505
RELEASED 6 2023-07-17 19:02:02.798553
REQUEST 6 2023-07-17 19:02:02.800703
GRANTED 6 2023-07-17 19:02:02.801250
RELEASED 6 2023-07-17 19:02:02.807880
REQUEST 6 2023-07-17 19:02:02.808729
GRANTED 6 2023-07-17 19:02:02.809238
RELEASED 6 2023-07-17 19:02:02.815003
REQUEST 8 2023-07-17 19:02:02.919457
GRANTED 8 2023-07-17 19:02:02.919557
REQUEST 7 2023-07-17 19:02:02.920063
RELEASED 8 2023-07-17 19:02:02.925529
GRANTED 7 2023-07-17 19:02:02.925529
REQUEST 8 2023-07-17 19:02:02.926037
RELEASED 7 2023-07-17 19:02:02.931612
GRANTED 8 2023-07-17 19:02:02.932220
REQUEST 7 2023-07-17 19:02:02.933749
RELEASED 8 2023-07-17 19:02:02.942816
GRANTED 7 2023-07-17 19:02:02.943417
REQUEST 8 2023-07-17 19:02:02.943417
RELEASED 7 2023-07-17 19:02:02.949461
GRANTED 8 2023-07-17 19:02:02.950545
REQUEST 7 2023-07-17 19:02:02.951608
RELEASED 8 2023-07-17 19:02:02.960190
GRANTED 7 2023-07-17 19:02:02.960190
RELEASED 7 2023-07-17 19:02:02.970512
REQUEST 10 2023-07-17 19:02:02.011666
GRANTED 10 2023-07-17 19:02:02.011666
RELEASED 10 2023-07-17 19:02:02.020334
REQUEST 10 2023-07-17 19:02:02.022133
GRANTED 10 2023-07-17 19:02:02.022133

REQUEST 9 2023-07-17 19:02:02.028847
RELEASED 10 2023-07-17 19:02:02.030264
GRANTED 9 2023-07-17 19:02:02.030773
REQUEST 10 2023-07-17 19:02:02.031309
RELEASED 9 2023-07-17 19:02:02.040577
GRANTED 10 2023-07-17 19:02:02.041901
REQUEST 9 2023-07-17 19:02:02.042957
RELEASED 10 2023-07-17 19:02:02.049864
GRANTED 9 2023-07-17 19:02:02.051937
RELEASED 9 2023-07-17 19:02:02.060918
REQUEST 9 2023-07-17 19:02:02.062428
GRANTED 9 2023-07-17 19:02:02.062946
REQUEST 11 2023-07-17 19:02:02.074481
RELEASED 9 2023-07-17 19:02:02.075445
GRANTED 11 2023-07-17 19:02:02.075524
RELEASED 11 2023-07-17 19:02:02.086709
REQUEST 11 2023-07-17 19:02:02.088200
GRANTED 11 2023-07-17 19:02:02.089265
RELEASED 11 2023-07-17 19:02:02.096971
REQUEST 11 2023-07-17 19:02:02.097481
GRANTED 11 2023-07-17 19:02:02.098008
RELEASED 11 2023-07-17 19:02:02.107670
REQUEST 12 2023-07-17 19:02:02.229546
GRANTED 12 2023-07-17 19:02:02.230053
RELEASED 12 2023-07-17 19:02:02.236563
REQUEST 12 2023-07-17 19:02:02.237262
GRANTED 12 2023-07-17 19:02:02.237262
RELEASED 12 2023-07-17 19:02:02.243132
REQUEST 12 2023-07-17 19:02:02.243934
GRANTED 12 2023-07-17 19:02:02.243934
RELEASED 12 2023-07-17 19:02:02.250521
REQUEST 13 2023-07-17 19:02:02.260976
GRANTED 13 2023-07-17 19:02:02.260976
RELEASED 13 2023-07-17 19:02:02.269324
REQUEST 13 2023-07-17 19:02:02.270816
GRANTED 13 2023-07-17 19:02:02.270816
RELEASED 13 2023-07-17 19:02:02.279856
REQUEST 13 2023-07-17 19:02:02.280821
GRANTED 13 2023-07-17 19:02:02.280821
RELEASED 13 2023-07-17 19:02:02.289928
REQUEST 14 2023-07-17 19:02:02.294416
GRANTED 14 2023-07-17 19:02:02.294954
RELEASED 14 2023-07-17 19:02:02.304763
REQUEST 14 2023-07-17 19:02:02.306585
GRANTED 14 2023-07-17 19:02:02.307755
RELEASED 14 2023-07-17 19:02:02.316336
REQUEST 14 2023-07-17 19:02:02.318501
GRANTED 14 2023-07-17 19:02:02.319907
RELEASED 14 2023-07-17 19:02:02.329636
REQUEST 16 2023-07-17 19:02:02.447820
GRANTED 16 2023-07-17 19:02:02.447820
REQUEST 15 2023-07-17 19:02:02.448874
RELEASED 16 2023-07-17 19:02:02.457767
GRANTED 15 2023-07-17 19:02:02.457767
REQUEST 16 2023-07-17 19:02:02.458361

RELEASED 15 2023-07-17 19:02:02.465958
GRANTED 16 2023-07-17 19:02:02.466959
REQUEST 15 2023-07-17 19:02:02.468117
RELEASED 16 2023-07-17 19:02:02.476966
GRANTED 15 2023-07-17 19:02:02.476966
REQUEST 16 2023-07-17 19:02:02.477664
RELEASED 15 2023-07-17 19:02:02.486346
GRANTED 16 2023-07-17 19:02:02.486852
REQUEST 15 2023-07-17 19:02:02.487376
RELEASED 16 2023-07-17 19:02:02.496887
GRANTED 15 2023-07-17 19:02:02.496887
RELEASED 15 2023-07-17 19:02:02.507631
REQUEST 17 2023-07-17 19:02:02.510702
GRANTED 17 2023-07-17 19:02:02.511371
RELEASED 17 2023-07-17 19:02:02.522969
REQUEST 17 2023-07-17 19:02:02.524734
GRANTED 17 2023-07-17 19:02:02.525248
RELEASED 17 2023-07-17 19:02:02.538913
REQUEST 17 2023-07-17 19:02:02.541953
GRANTED 17 2023-07-17 19:02:02.542996
RELEASED 17 2023-07-17 19:02:02.552889
REQUEST 18 2023-07-17 19:02:02.619828
GRANTED 18 2023-07-17 19:02:02.619828
RELEASED 18 2023-07-17 19:02:02.626811
REQUEST 18 2023-07-17 19:02:02.627317
GRANTED 18 2023-07-17 19:02:02.627626
RELEASED 18 2023-07-17 19:02:02.636462
REQUEST 18 2023-07-17 19:02:02.636971
GRANTED 18 2023-07-17 19:02:02.637502
RELEASED 18 2023-07-17 19:02:02.645626
REQUEST 19 2023-07-17 19:02:02.652773
GRANTED 19 2023-07-17 19:02:02.653338
RELEASED 19 2023-07-17 19:02:02.663160
REQUEST 19 2023-07-17 19:02:02.666181
GRANTED 19 2023-07-17 19:02:02.667602
RELEASED 19 2023-07-17 19:02:02.676253
REQUEST 19 2023-07-17 19:02:02.677643
GRANTED 19 2023-07-17 19:02:02.677946
RELEASED 19 2023-07-17 19:02:02.687252
REQUEST 20 2023-07-17 19:02:02.745085
GRANTED 20 2023-07-17 19:02:02.745085
RELEASED 20 2023-07-17 19:02:02.752272
REQUEST 20 2023-07-17 19:02:02.753584
GRANTED 20 2023-07-17 19:02:02.753890
RELEASED 20 2023-07-17 19:02:02.760645
REQUEST 20 2023-07-17 19:02:02.761151
GRANTED 20 2023-07-17 19:02:02.761673
RELEASED 20 2023-07-17 19:02:02.769171
REQUEST 21 2023-07-17 19:02:02.824074
GRANTED 21 2023-07-17 19:02:02.824609
RELEASED 21 2023-07-17 19:02:02.833962
REQUEST 21 2023-07-17 19:02:02.834470
GRANTED 21 2023-07-17 19:02:02.835005
RELEASED 21 2023-07-17 19:02:02.842437
REQUEST 21 2023-07-17 19:02:02.843261

GRANTED 21 2023-07-17 19:02:02.843261
RELEASED 21 2023-07-17 19:02:02.851005
REQUEST 22 2023-07-17 19:02:02.870301
GRANTED 22 2023-07-17 19:02:02.870835
RELEASED 22 2023-07-17 19:02:02.878420
REQUEST 22 2023-07-17 19:02:02.878930
GRANTED 22 2023-07-17 19:02:02.879452
RELEASED 22 2023-07-17 19:02:02.888961
REQUEST 22 2023-07-17 19:02:02.889731
GRANTED 22 2023-07-17 19:02:02.889731
RELEASED 22 2023-07-17 19:02:02.897555
REQUEST 23 2023-07-17 19:02:02.934138
GRANTED 23 2023-07-17 19:02:02.934647
RELEASED 23 2023-07-17 19:02:02.940677
REQUEST 23 2023-07-17 19:02:02.941185
GRANTED 23 2023-07-17 19:02:02.941701
RELEASED 23 2023-07-17 19:02:02.947796
REQUEST 23 2023-07-17 19:02:02.948552
GRANTED 23 2023-07-17 19:02:02.949605
RELEASED 23 2023-07-17 19:02:02.956773
REQUEST 24 2023-07-17 19:02:02.025868
GRANTED 24 2023-07-17 19:02:02.026373
RELEASED 24 2023-07-17 19:02:02.032555
REQUEST 24 2023-07-17 19:02:02.033060
GRANTED 24 2023-07-17 19:02:02.033585
RELEASED 24 2023-07-17 19:02:02.039606
REQUEST 24 2023-07-17 19:02:02.040995
GRANTED 24 2023-07-17 19:02:02.041504
RELEASED 24 2023-07-17 19:02:02.050633
REQUEST 25 2023-07-17 19:02:02.135215
GRANTED 25 2023-07-17 19:02:02.135215
RELEASED 25 2023-07-17 19:02:02.141953
REQUEST 25 2023-07-17 19:02:02.143986
GRANTED 25 2023-07-17 19:02:02.143986
REQUEST 26 2023-07-17 19:02:02.151575
RELEASED 25 2023-07-17 19:02:02.152089
GRANTED 26 2023-07-17 19:02:02.152606
REQUEST 25 2023-07-17 19:02:02.153148
RELEASED 26 2023-07-17 19:02:02.160524
GRANTED 25 2023-07-17 19:02:02.160524
REQUEST 26 2023-07-17 19:02:02.161030
RELEASED 25 2023-07-17 19:02:02.169087
GRANTED 26 2023-07-17 19:02:02.169383
RELEASED 26 2023-07-17 19:02:02.176283
REQUEST 26 2023-07-17 19:02:02.176791
GRANTED 26 2023-07-17 19:02:02.177068
RELEASED 26 2023-07-17 19:02:02.186098
REQUEST 27 2023-07-17 19:02:02.231603
GRANTED 27 2023-07-17 19:02:02.232644
RELEASED 27 2023-07-17 19:02:02.239997
REQUEST 27 2023-07-17 19:02:02.240798
GRANTED 27 2023-07-17 19:02:02.240798
RELEASED 27 2023-07-17 19:02:02.247841
REQUEST 27 2023-07-17 19:02:02.248347
GRANTED 27 2023-07-17 19:02:02.249292

```
RELEASED 27 2023-07-17 19:02:02.256812
REQUEST 28 2023-07-17 19:02:02.275971
GRANTED 28 2023-07-17 19:02:02.275971
RELEASED 28 2023-07-17 19:02:02.283072
REQUEST 28 2023-07-17 19:02:02.285194
GRANTED 28 2023-07-17 19:02:02.285194
RELEASED 28 2023-07-17 19:02:02.291984
REQUEST 28 2023-07-17 19:02:02.292759
GRANTED 28 2023-07-17 19:02:02.293265
RELEASED 28 2023-07-17 19:02:02.302123
REQUEST 29 2023-07-17 19:02:02.353041
GRANTED 29 2023-07-17 19:02:02.353547
RELEASED 29 2023-07-17 19:02:02.358604
REQUEST 29 2023-07-17 19:02:02.360071
GRANTED 29 2023-07-17 19:02:02.360258
RELEASED 29 2023-07-17 19:02:02.366976
REQUEST 29 2023-07-17 19:02:02.367483
GRANTED 29 2023-07-17 19:02:02.368456
RELEASED 29 2023-07-17 19:02:02.377250
REQUEST 30 2023-07-17 19:02:02.385996
GRANTED 30 2023-07-17 19:02:02.386537
RELEASED 30 2023-07-17 19:02:02.394708
REQUEST 30 2023-07-17 19:02:02.395216
GRANTED 30 2023-07-17 19:02:02.395744
RELEASED 30 2023-07-17 19:02:02.404343
REQUEST 30 2023-07-17 19:02:02.405428
GRANTED 30 2023-07-17 19:02:02.406012
RELEASED 30 2023-07-17 19:02:02.414604
REQUEST 31 2023-07-17 19:02:02.416950
GRANTED 31 2023-07-17 19:02:02.418185
RELEASED 31 2023-07-17 19:02:02.426999
REQUEST 31 2023-07-17 19:02:02.427507
GRANTED 31 2023-07-17 19:02:02.428558
RELEASED 31 2023-07-17 19:02:02.437733
REQUEST 31 2023-07-17 19:02:02.439133
GRANTED 31 2023-07-17 19:02:02.439675
RELEASED 31 2023-07-17 19:02:02.449096
```

▼ **n = 64, r = 3, e k = 0 - 3,565 segundos**

▼ **results.txt (192 linhas 64x3)**

```
Process Id: 0 - 2023-07-17 19:04:14.319867
Process Id: 0 - 2023-07-17 19:04:14.329206
Process Id: 0 - 2023-07-17 19:04:14.348498
Process Id: 1 - 2023-07-17 19:04:14.397623
Process Id: 4 - 2023-07-17 19:04:14.441480
Process Id: 1 - 2023-07-17 19:04:14.458442
Process Id: 3 - 2023-07-17 19:04:14.479595
Process Id: 5 - 2023-07-17 19:04:14.491533
Process Id: 2 - 2023-07-17 19:04:14.514743
Process Id: 4 - 2023-07-17 19:04:14.536614
```

Process Id: 1 - 2023-07-17 19:04:14.584702
Process Id: 3 - 2023-07-17 19:04:14.598767
Process Id: 7 - 2023-07-17 19:04:14.629386
Process Id: 6 - 2023-07-17 19:04:14.639820
Process Id: 5 - 2023-07-17 19:04:14.649677
Process Id: 2 - 2023-07-17 19:04:14.659711
Process Id: 4 - 2023-07-17 19:04:14.681385
Process Id: 8 - 2023-07-17 19:04:14.699404
Process Id: 3 - 2023-07-17 19:04:14.718986
Process Id: 7 - 2023-07-17 19:04:14.745775
Process Id: 6 - 2023-07-17 19:04:14.764039
Process Id: 5 - 2023-07-17 19:04:14.778569
Process Id: 9 - 2023-07-17 19:04:14.799148
Process Id: 2 - 2023-07-17 19:04:14.815037
Process Id: 8 - 2023-07-17 19:04:14.829665
Process Id: 10 - 2023-07-17 19:04:14.854408
Process Id: 7 - 2023-07-17 19:04:14.886611
Process Id: 6 - 2023-07-17 19:04:14.909524
Process Id: 11 - 2023-07-17 19:04:14.949884
Process Id: 9 - 2023-07-17 19:04:14.990408
Process Id: 12 - 2023-07-17 19:04:15.005350
Process Id: 8 - 2023-07-17 19:04:15.017893
Process Id: 10 - 2023-07-17 19:04:15.038982
Process Id: 13 - 2023-07-17 19:04:15.069284
Process Id: 15 - 2023-07-17 19:04:15.081490
Process Id: 11 - 2023-07-17 19:04:15.126053
Process Id: 16 - 2023-07-17 19:04:15.156628
Process Id: 14 - 2023-07-17 19:04:15.170715
Process Id: 9 - 2023-07-17 19:04:15.185069
Process Id: 12 - 2023-07-17 19:04:15.195335
Process Id: 10 - 2023-07-17 19:04:15.206621
Process Id: 13 - 2023-07-17 19:04:15.225025
Process Id: 15 - 2023-07-17 19:04:15.247856
Process Id: 17 - 2023-07-17 19:04:15.258363
Process Id: 11 - 2023-07-17 19:04:15.286102
Process Id: 18 - 2023-07-17 19:04:15.301500
Process Id: 16 - 2023-07-17 19:04:15.316599
Process Id: 14 - 2023-07-17 19:04:15.409540
Process Id: 12 - 2023-07-17 19:04:15.427832
Process Id: 19 - 2023-07-17 19:04:15.439788
Process Id: 13 - 2023-07-17 19:04:15.462110
Process Id: 15 - 2023-07-17 19:04:15.487735
Process Id: 17 - 2023-07-17 19:04:15.507623
Process Id: 20 - 2023-07-17 19:04:15.523300
Process Id: 18 - 2023-07-17 19:04:15.539823
Process Id: 21 - 2023-07-17 19:04:15.555611
Process Id: 22 - 2023-07-17 19:04:15.569396
Process Id: 23 - 2023-07-17 19:04:15.580631
Process Id: 24 - 2023-07-17 19:04:15.592478
Process Id: 16 - 2023-07-17 19:04:15.605052
Process Id: 14 - 2023-07-17 19:04:15.615561
Process Id: 19 - 2023-07-17 19:04:15.626098
Process Id: 25 - 2023-07-17 19:04:15.641344
Process Id: 17 - 2023-07-17 19:04:15.659350
Process Id: 20 - 2023-07-17 19:04:15.668535

Process Id: 18 - 2023-07-17 19:04:15.678903
Process Id: 21 - 2023-07-17 19:04:15.691500
Process Id: 26 - 2023-07-17 19:04:15.705967
Process Id: 22 - 2023-07-17 19:04:15.716760
Process Id: 23 - 2023-07-17 19:04:15.726926
Process Id: 24 - 2023-07-17 19:04:15.737475
Process Id: 27 - 2023-07-17 19:04:15.745629
Process Id: 19 - 2023-07-17 19:04:15.756265
Process Id: 28 - 2023-07-17 19:04:15.765270
Process Id: 25 - 2023-07-17 19:04:15.776966
Process Id: 20 - 2023-07-17 19:04:15.785008
Process Id: 21 - 2023-07-17 19:04:15.795216
Process Id: 29 - 2023-07-17 19:04:15.805365
Process Id: 26 - 2023-07-17 19:04:15.814116
Process Id: 22 - 2023-07-17 19:04:15.825066
Process Id: 23 - 2023-07-17 19:04:15.833284
Process Id: 24 - 2023-07-17 19:04:15.844629
Process Id: 27 - 2023-07-17 19:04:15.854471
Process Id: 28 - 2023-07-17 19:04:15.862637
Process Id: 25 - 2023-07-17 19:04:15.871156
Process Id: 30 - 2023-07-17 19:04:15.880811
Process Id: 29 - 2023-07-17 19:04:15.890054
Process Id: 26 - 2023-07-17 19:04:15.898376
Process Id: 31 - 2023-07-17 19:04:15.908140
Process Id: 27 - 2023-07-17 19:04:15.915837
Process Id: 28 - 2023-07-17 19:04:15.925285
Process Id: 30 - 2023-07-17 19:04:15.936879
Process Id: 32 - 2023-07-17 19:04:15.948050
Process Id: 29 - 2023-07-17 19:04:15.959417
Process Id: 31 - 2023-07-17 19:04:15.968421
Process Id: 33 - 2023-07-17 19:04:15.978621
Process Id: 30 - 2023-07-17 19:04:15.987434
Process Id: 32 - 2023-07-17 19:04:15.994998
Process Id: 31 - 2023-07-17 19:04:16.002721
Process Id: 33 - 2023-07-17 19:04:16.010255
Process Id: 32 - 2023-07-17 19:04:16.020905
Process Id: 34 - 2023-07-17 19:04:16.029231
Process Id: 35 - 2023-07-17 19:04:16.039926
Process Id: 33 - 2023-07-17 19:04:16.048484
Process Id: 34 - 2023-07-17 19:04:16.056764
Process Id: 35 - 2023-07-17 19:04:16.064796
Process Id: 36 - 2023-07-17 19:04:16.074884
Process Id: 34 - 2023-07-17 19:04:16.083440
Process Id: 35 - 2023-07-17 19:04:16.092058
Process Id: 36 - 2023-07-17 19:04:16.099484
Process Id: 36 - 2023-07-17 19:04:16.109125
Process Id: 37 - 2023-07-17 19:04:16.139108
Process Id: 37 - 2023-07-17 19:04:16.146736
Process Id: 37 - 2023-07-17 19:04:16.154881
Process Id: 38 - 2023-07-17 19:04:16.186703
Process Id: 38 - 2023-07-17 19:04:16.196191
Process Id: 39 - 2023-07-17 19:04:16.204490
Process Id: 38 - 2023-07-17 19:04:16.211618
Process Id: 39 - 2023-07-17 19:04:16.218541
Process Id: 39 - 2023-07-17 19:04:16.226176

Process Id: 40 - 2023-07-17 19:04:16.299419
Process Id: 40 - 2023-07-17 19:04:16.320107
Process Id: 40 - 2023-07-17 19:04:16.342336
Process Id: 41 - 2023-07-17 19:04:16.388781
Process Id: 41 - 2023-07-17 19:04:16.396756
Process Id: 41 - 2023-07-17 19:04:16.405097
Process Id: 42 - 2023-07-17 19:04:16.420006
Process Id: 42 - 2023-07-17 19:04:16.428943
Process Id: 42 - 2023-07-17 19:04:16.438416
Process Id: 43 - 2023-07-17 19:04:16.479955
Process Id: 43 - 2023-07-17 19:04:16.487475
Process Id: 43 - 2023-07-17 19:04:16.494572
Process Id: 44 - 2023-07-17 19:04:16.501655
Process Id: 44 - 2023-07-17 19:04:16.509443
Process Id: 44 - 2023-07-17 19:04:16.518320
Process Id: 45 - 2023-07-17 19:04:16.573986
Process Id: 45 - 2023-07-17 19:04:16.580335
Process Id: 45 - 2023-07-17 19:04:16.586919
Process Id: 46 - 2023-07-17 19:04:16.636250
Process Id: 46 - 2023-07-17 19:04:16.642565
Process Id: 46 - 2023-07-17 19:04:16.649834
Process Id: 47 - 2023-07-17 19:04:16.667374
Process Id: 47 - 2023-07-17 19:04:16.675685
Process Id: 47 - 2023-07-17 19:04:16.684957
Process Id: 48 - 2023-07-17 19:04:16.800485
Process Id: 48 - 2023-07-17 19:04:16.831042
Process Id: 49 - 2023-07-17 19:04:16.849353
Process Id: 48 - 2023-07-17 19:04:16.861924
Process Id: 49 - 2023-07-17 19:04:16.870888
Process Id: 49 - 2023-07-17 19:04:16.878790
Process Id: 50 - 2023-07-17 19:04:16.958285
Process Id: 51 - 2023-07-17 19:04:16.989603
Process Id: 50 - 2023-07-17 19:04:17.005888
Process Id: 51 - 2023-07-17 19:04:17.021058
Process Id: 50 - 2023-07-17 19:04:17.031379
Process Id: 51 - 2023-07-17 19:04:17.039824
Process Id: 52 - 2023-07-17 19:04:17.059132
Process Id: 52 - 2023-07-17 19:04:17.067438
Process Id: 52 - 2023-07-17 19:04:17.076814
Process Id: 53 - 2023-07-17 19:04:17.160548
Process Id: 53 - 2023-07-17 19:04:17.191754
Process Id: 53 - 2023-07-17 19:04:17.211706
Process Id: 54 - 2023-07-17 19:04:17.280538
Process Id: 55 - 2023-07-17 19:04:17.303675
Process Id: 54 - 2023-07-17 19:04:17.317170
Process Id: 55 - 2023-07-17 19:04:17.327455
Process Id: 54 - 2023-07-17 19:04:17.336570
Process Id: 55 - 2023-07-17 19:04:17.344256
Process Id: 56 - 2023-07-17 19:04:17.354151
Process Id: 56 - 2023-07-17 19:04:17.363005
Process Id: 56 - 2023-07-17 19:04:17.373629
Process Id: 57 - 2023-07-17 19:04:17.461376
Process Id: 57 - 2023-07-17 19:04:17.472104
Process Id: 57 - 2023-07-17 19:04:17.480898
Process Id: 58 - 2023-07-17 19:04:17.507524

```
Process Id: 58 - 2023-07-17 19:04:17.516970
Process Id: 58 - 2023-07-17 19:04:17.525277
Process Id: 59 - 2023-07-17 19:04:17.628648
Process Id: 61 - 2023-07-17 19:04:17.651482
Process Id: 59 - 2023-07-17 19:04:17.662046
Process Id: 61 - 2023-07-17 19:04:17.670921
Process Id: 59 - 2023-07-17 19:04:17.677918
Process Id: 61 - 2023-07-17 19:04:17.684758
Process Id: 62 - 2023-07-17 19:04:17.725753
Process Id: 62 - 2023-07-17 19:04:17.733452
Process Id: 62 - 2023-07-17 19:04:17.741539
Process Id: 60 - 2023-07-17 19:04:17.756839
Process Id: 60 - 2023-07-17 19:04:17.765546
Process Id: 60 - 2023-07-17 19:04:17.774950
Process Id: 63 - 2023-07-17 19:04:17.841627
Process Id: 63 - 2023-07-17 19:04:17.863753
Process Id: 63 - 2023-07-17 19:04:17.884580
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 0 2023-07-17 19:04:04.317381
GRANTED 0 2023-07-17 19:04:04.317887
RELEASED 0 2023-07-17 19:04:04.322011
REQUEST 0 2023-07-17 19:04:04.325688
GRANTED 0 2023-07-17 19:04:04.327207
RELEASED 0 2023-07-17 19:04:04.338869
REQUEST 0 2023-07-17 19:04:04.344417
GRANTED 0 2023-07-17 19:04:04.345106
RELEASED 0 2023-07-17 19:04:04.360550
REQUEST 1 2023-07-17 19:04:04.382128
GRANTED 1 2023-07-17 19:04:04.383141
REQUEST 4 2023-07-17 19:04:04.430315
RELEASED 1 2023-07-17 19:04:04.431315
GRANTED 4 2023-07-17 19:04:04.431823
REQUEST 1 2023-07-17 19:04:04.434841
REQUEST 3 2023-07-17 19:04:04.438174
REQUEST 5 2023-07-17 19:04:04.450277
REQUEST 2 2023-07-17 19:04:04.451285
RELEASED 4 2023-07-17 19:04:04.452883
GRANTED 1 2023-07-17 19:04:04.453391
REQUEST 4 2023-07-17 19:04:04.459181
RELEASED 1 2023-07-17 19:04:04.474402
GRANTED 3 2023-07-17 19:04:04.475699
REQUEST 1 2023-07-17 19:04:04.476699
RELEASED 3 2023-07-17 19:04:04.489657
GRANTED 5 2023-07-17 19:04:04.489657
REQUEST 3 2023-07-17 19:04:04.500556
REQUEST 7 2023-07-17 19:04:04.502794
REQUEST 6 2023-07-17 19:04:04.503807
RELEASED 5 2023-07-17 19:04:04.505457
GRANTED 2 2023-07-17 19:04:04.505568
```

REQUEST 5 2023-07-17 19:04:04.507118
RELEASED 2 2023-07-17 19:04:04.531328
GRANTED 4 2023-07-17 19:04:04.532720
REQUEST 2 2023-07-17 19:04:04.536614
RELEASED 4 2023-07-17 19:04:04.553705
GRANTED 1 2023-07-17 19:04:04.556694
REQUEST 4 2023-07-17 19:04:04.560129
REQUEST 8 2023-07-17 19:04:04.579006
RELEASED 1 2023-07-17 19:04:04.591857
GRANTED 3 2023-07-17 19:04:04.593373
RELEASED 3 2023-07-17 19:04:04.607024
REQUEST 3 2023-07-17 19:04:04.614205
GRANTED 7 2023-07-17 19:04:04.611080
RELEASED 7 2023-07-17 19:04:04.637440
GRANTED 6 2023-07-17 19:04:04.638384
REQUEST 7 2023-07-17 19:04:04.639820
RELEASED 6 2023-07-17 19:04:04.647242
GRANTED 5 2023-07-17 19:04:04.648171
REQUEST 6 2023-07-17 19:04:04.656229
RELEASED 5 2023-07-17 19:04:04.657950
GRANTED 2 2023-07-17 19:04:04.658459
REQUEST 5 2023-07-17 19:04:04.659711
RELEASED 2 2023-07-17 19:04:04.674424
GRANTED 4 2023-07-17 19:04:04.675426
REQUEST 9 2023-07-17 19:04:04.675904
REQUEST 2 2023-07-17 19:04:04.676414
RELEASED 4 2023-07-17 19:04:04.693945
GRANTED 8 2023-07-17 19:04:04.693945
RELEASED 8 2023-07-17 19:04:04.710126
GRANTED 3 2023-07-17 19:04:04.710126
REQUEST 8 2023-07-17 19:04:04.712754
RELEASED 3 2023-07-17 19:04:04.728292
GRANTED 7 2023-07-17 19:04:04.728292
REQUEST 10 2023-07-17 19:04:04.740024
RELEASED 7 2023-07-17 19:04:04.757965
GRANTED 6 2023-07-17 19:04:04.758539
REQUEST 7 2023-07-17 19:04:04.759271
RELEASED 6 2023-07-17 19:04:04.772110
GRANTED 5 2023-07-17 19:04:04.773616
REQUEST 6 2023-07-17 19:04:04.775851
RELEASED 5 2023-07-17 19:04:04.790641
GRANTED 9 2023-07-17 19:04:04.791639
RELEASED 9 2023-07-17 19:04:04.810440
GRANTED 2 2023-07-17 19:04:04.811442
REQUEST 11 2023-07-17 19:04:04.811950
REQUEST 9 2023-07-17 19:04:04.812960
REQUEST 12 2023-07-17 19:04:04.812960
RELEASED 2 2023-07-17 19:04:04.826587
GRANTED 8 2023-07-17 19:04:04.827587
RELEASED 8 2023-07-17 19:04:04.845733
GRANTED 10 2023-07-17 19:04:04.847331
REQUEST 8 2023-07-17 19:04:04.849850
RELEASED 10 2023-07-17 19:04:04.880496
GRANTED 7 2023-07-17 19:04:04.881496
REQUEST 10 2023-07-17 19:04:04.889406

RELEASED 7 2023-07-17 19:04:04.899613
GRANTED 6 2023-07-17 19:04:04.905597
REQUEST 13 2023-07-17 19:04:04.907122
RELEASED 6 2023-07-17 19:04:04.944347
GRANTED 11 2023-07-17 19:04:04.945035
RELEASED 11 2023-07-17 19:04:04.980246
GRANTED 9 2023-07-17 19:04:04.981246
REQUEST 15 2023-07-17 19:04:04.981754
REQUEST 11 2023-07-17 19:04:04.983775
REQUEST 16 2023-07-17 19:04:04.984777
REQUEST 14 2023-07-17 19:04:04.984777
RELEASED 9 2023-07-17 19:04:04.999945
GRANTED 12 2023-07-17 19:04:04.999945
REQUEST 9 2023-07-17 19:04:04.002191
RELEASED 12 2023-07-17 19:04:04.015893
GRANTED 8 2023-07-17 19:04:04.016892
REQUEST 12 2023-07-17 19:04:04.017893
RELEASED 8 2023-07-17 19:04:04.032163
GRANTED 10 2023-07-17 19:04:04.032163
RELEASED 10 2023-07-17 19:04:04.054648
GRANTED 13 2023-07-17 19:04:04.066286
REQUEST 10 2023-07-17 19:04:04.076812
RELEASED 13 2023-07-17 19:04:04.078037
GRANTED 15 2023-07-17 19:04:04.079613
REQUEST 13 2023-07-17 19:04:04.080974
RELEASED 15 2023-07-17 19:04:04.106009
GRANTED 11 2023-07-17 19:04:04.107011
REQUEST 15 2023-07-17 19:04:04.107672
REQUEST 17 2023-07-17 19:04:04.133594
RELEASED 11 2023-07-17 19:04:04.140087
GRANTED 16 2023-07-17 19:04:04.140087
REQUEST 11 2023-07-17 19:04:04.142606
REQUEST 18 2023-07-17 19:04:04.156628
RELEASED 16 2023-07-17 19:04:04.168457
GRANTED 14 2023-07-17 19:04:04.169465
REQUEST 16 2023-07-17 19:04:04.170715
RELEASED 14 2023-07-17 19:04:04.179664
GRANTED 9 2023-07-17 19:04:04.184196
REQUEST 14 2023-07-17 19:04:04.185576
RELEASED 9 2023-07-17 19:04:04.193628
GRANTED 12 2023-07-17 19:04:04.194136
RELEASED 12 2023-07-17 19:04:04.204915
GRANTED 10 2023-07-17 19:04:04.205718
REQUEST 12 2023-07-17 19:04:04.212818
RELEASED 10 2023-07-17 19:04:04.222826
GRANTED 13 2023-07-17 19:04:04.223827
REQUEST 19 2023-07-17 19:04:04.228309
RELEASED 13 2023-07-17 19:04:04.245747
GRANTED 15 2023-07-17 19:04:04.245747
REQUEST 13 2023-07-17 19:04:04.247344
RELEASED 15 2023-07-17 19:04:04.256629
GRANTED 17 2023-07-17 19:04:04.257446
REQUEST 15 2023-07-17 19:04:04.264494
RELEASED 17 2023-07-17 19:04:04.283337
GRANTED 11 2023-07-17 19:04:04.284459

REQUEST 17 2023-07-17 19:04:04.295665
RELEASED 11 2023-07-17 19:04:04.297219
GRANTED 18 2023-07-17 19:04:04.298229
REQUEST 20 2023-07-17 19:04:04.299227
RELEASED 18 2023-07-17 19:04:04.311325
GRANTED 16 2023-07-17 19:04:04.312722
REQUEST 18 2023-07-17 19:04:04.316599
REQUEST 21 2023-07-17 19:04:04.352169
REQUEST 22 2023-07-17 19:04:04.375029
REQUEST 23 2023-07-17 19:04:04.389915
REQUEST 24 2023-07-17 19:04:04.389915
RELEASED 16 2023-07-17 19:04:04.408240
GRANTED 14 2023-07-17 19:04:04.409033
REQUEST 16 2023-07-17 19:04:04.409540
RELEASED 14 2023-07-17 19:04:04.423072
GRANTED 12 2023-07-17 19:04:04.424072
REQUEST 14 2023-07-17 19:04:04.428844
RELEASED 12 2023-07-17 19:04:04.437174
GRANTED 19 2023-07-17 19:04:04.437803
RELEASED 19 2023-07-17 19:04:04.453937
GRANTED 13 2023-07-17 19:04:04.455763
REQUEST 19 2023-07-17 19:04:04.463121
RELEASED 13 2023-07-17 19:04:04.482112
GRANTED 15 2023-07-17 19:04:04.483433
RELEASED 15 2023-07-17 19:04:04.500340
GRANTED 17 2023-07-17 19:04:04.500340
REQUEST 25 2023-07-17 19:04:04.504825
RELEASED 17 2023-07-17 19:04:04.519126
GRANTED 20 2023-07-17 19:04:04.519126
REQUEST 17 2023-07-17 19:04:04.528312
RELEASED 20 2023-07-17 19:04:04.535354
GRANTED 18 2023-07-17 19:04:04.536696
REQUEST 20 2023-07-17 19:04:04.539315
RELEASED 18 2023-07-17 19:04:04.553920
GRANTED 21 2023-07-17 19:04:04.554484
REQUEST 18 2023-07-17 19:04:04.557134
RELEASED 21 2023-07-17 19:04:04.564649
GRANTED 22 2023-07-17 19:04:04.566255
REQUEST 21 2023-07-17 19:04:04.567268
REQUEST 26 2023-07-17 19:04:04.568267
RELEASED 22 2023-07-17 19:04:04.579244
GRANTED 23 2023-07-17 19:04:04.580120
REQUEST 22 2023-07-17 19:04:04.580631
RELEASED 23 2023-07-17 19:04:04.590015
GRANTED 24 2023-07-17 19:04:04.591054
REQUEST 23 2023-07-17 19:04:04.591970
RELEASED 24 2023-07-17 19:04:04.601501
GRANTED 16 2023-07-17 19:04:04.604127
REQUEST 24 2023-07-17 19:04:04.607157
RELEASED 16 2023-07-17 19:04:04.613751
GRANTED 14 2023-07-17 19:04:04.614451
REQUEST 27 2023-07-17 19:04:04.614451
RELEASED 14 2023-07-17 19:04:04.624291
GRANTED 19 2023-07-17 19:04:04.624989
RELEASED 19 2023-07-17 19:04:04.637642

GRANTED 25 2023-07-17 19:04:04.638641
REQUEST 19 2023-07-17 19:04:04.641344
RELEASED 25 2023-07-17 19:04:04.655037
GRANTED 17 2023-07-17 19:04:04.655578
REQUEST 28 2023-07-17 19:04:04.655578
REQUEST 25 2023-07-17 19:04:04.658000
RELEASED 17 2023-07-17 19:04:04.666408
GRANTED 20 2023-07-17 19:04:04.667405
RELEASED 20 2023-07-17 19:04:04.677843
GRANTED 18 2023-07-17 19:04:04.677843
REQUEST 20 2023-07-17 19:04:04.678903
RELEASED 18 2023-07-17 19:04:04.687987
GRANTED 21 2023-07-17 19:04:04.689503
RELEASED 21 2023-07-17 19:04:04.702720
GRANTED 26 2023-07-17 19:04:04.704095
REQUEST 21 2023-07-17 19:04:04.705967
REQUEST 29 2023-07-17 19:04:04.706643
RELEASED 26 2023-07-17 19:04:04.713799
GRANTED 22 2023-07-17 19:04:04.715235
REQUEST 26 2023-07-17 19:04:04.715747
RELEASED 22 2023-07-17 19:04:04.725280
GRANTED 23 2023-07-17 19:04:04.726417
REQUEST 22 2023-07-17 19:04:04.726926
RELEASED 23 2023-07-17 19:04:04.735808
GRANTED 24 2023-07-17 19:04:04.736394
REQUEST 23 2023-07-17 19:04:04.736963
RELEASED 24 2023-07-17 19:04:04.744395
GRANTED 27 2023-07-17 19:04:04.744903
REQUEST 24 2023-07-17 19:04:04.745064
RELEASED 27 2023-07-17 19:04:04.755079
GRANTED 19 2023-07-17 19:04:04.755079
REQUEST 27 2023-07-17 19:04:04.755697
RELEASED 19 2023-07-17 19:04:04.763833
GRANTED 28 2023-07-17 19:04:04.763833
RELEASED 28 2023-07-17 19:04:04.774664
GRANTED 25 2023-07-17 19:04:04.775746
REQUEST 28 2023-07-17 19:04:04.775746
RELEASED 25 2023-07-17 19:04:04.783368
GRANTED 20 2023-07-17 19:04:04.783875
REQUEST 25 2023-07-17 19:04:04.784719
RELEASED 20 2023-07-17 19:04:04.793588
GRANTED 21 2023-07-17 19:04:04.794123
REQUEST 30 2023-07-17 19:04:04.799399
RELEASED 21 2023-07-17 19:04:04.803725
GRANTED 29 2023-07-17 19:04:04.804231
RELEASED 29 2023-07-17 19:04:04.811322
GRANTED 26 2023-07-17 19:04:04.811828
REQUEST 29 2023-07-17 19:04:04.813170
RELEASED 26 2023-07-17 19:04:04.823185
GRANTED 22 2023-07-17 19:04:04.823879
REQUEST 26 2023-07-17 19:04:04.824476
REQUEST 31 2023-07-17 19:04:04.829685
RELEASED 22 2023-07-17 19:04:04.832240
GRANTED 23 2023-07-17 19:04:04.832747
RELEASED 23 2023-07-17 19:04:04.841995

GRANTED 24 2023-07-17 19:04:04.841995
RELEASED 24 2023-07-17 19:04:04.852140
GRANTED 27 2023-07-17 19:04:04.852648
RELEASED 27 2023-07-17 19:04:04.861486
GRANTED 28 2023-07-17 19:04:04.862018
REQUEST 27 2023-07-17 19:04:04.862637
RELEASED 28 2023-07-17 19:04:04.870132
GRANTED 25 2023-07-17 19:04:04.870132
REQUEST 28 2023-07-17 19:04:04.870639
RELEASED 25 2023-07-17 19:04:04.879777
GRANTED 30 2023-07-17 19:04:04.879777
RELEASED 30 2023-07-17 19:04:04.888537
GRANTED 29 2023-07-17 19:04:04.888537
REQUEST 30 2023-07-17 19:04:04.889043
REQUEST 32 2023-07-17 19:04:04.892140
RELEASED 29 2023-07-17 19:04:04.897290
GRANTED 26 2023-07-17 19:04:04.897290
REQUEST 29 2023-07-17 19:04:04.897858
RELEASED 26 2023-07-17 19:04:04.906890
GRANTED 31 2023-07-17 19:04:04.907396
RELEASED 31 2023-07-17 19:04:04.914772
GRANTED 27 2023-07-17 19:04:04.914772
REQUEST 31 2023-07-17 19:04:04.915331
REQUEST 33 2023-07-17 19:04:04.921383
RELEASED 27 2023-07-17 19:04:04.923919
GRANTED 28 2023-07-17 19:04:04.924480
RELEASED 28 2023-07-17 19:04:04.933320
GRANTED 30 2023-07-17 19:04:04.933947
RELEASED 30 2023-07-17 19:04:04.945417
GRANTED 32 2023-07-17 19:04:04.946724
REQUEST 30 2023-07-17 19:04:04.947410
RELEASED 32 2023-07-17 19:04:04.957598
GRANTED 29 2023-07-17 19:04:04.958264
REQUEST 32 2023-07-17 19:04:04.958909
RELEASED 29 2023-07-17 19:04:04.966532
GRANTED 31 2023-07-17 19:04:04.967066
RELEASED 31 2023-07-17 19:04:04.977554
GRANTED 33 2023-07-17 19:04:04.977554
REQUEST 31 2023-07-17 19:04:04.978115
RELEASED 33 2023-07-17 19:04:04.986247
GRANTED 30 2023-07-17 19:04:04.986247
REQUEST 33 2023-07-17 19:04:04.986754
RELEASED 30 2023-07-17 19:04:04.993476
GRANTED 32 2023-07-17 19:04:04.993967
RELEASED 32 2023-07-17 19:04:04.001676
GRANTED 31 2023-07-17 19:04:04.002185
REQUEST 32 2023-07-17 19:04:04.002721
RELEASED 31 2023-07-17 19:04:04.009217
GRANTED 33 2023-07-17 19:04:04.009217
REQUEST 34 2023-07-17 19:04:04.015742
REQUEST 35 2023-07-17 19:04:04.016288
RELEASED 33 2023-07-17 19:04:04.019377
GRANTED 32 2023-07-17 19:04:04.020338
REQUEST 33 2023-07-17 19:04:04.020399
RELEASED 32 2023-07-17 19:04:04.027369

GRANTED 34 2023-07-17 19:04:04.027369
RELEASED 34 2023-07-17 19:04:04.037319
GRANTED 35 2023-07-17 19:04:04.038720
REQUEST 34 2023-07-17 19:04:04.039415
RELEASED 35 2023-07-17 19:04:04.047253
GRANTED 33 2023-07-17 19:04:04.047253
REQUEST 35 2023-07-17 19:04:04.047759
RELEASED 33 2023-07-17 19:04:04.055655
GRANTED 34 2023-07-17 19:04:04.056162
REQUEST 36 2023-07-17 19:04:04.061282
RELEASED 34 2023-07-17 19:04:04.063758
GRANTED 35 2023-07-17 19:04:04.064267
REQUEST 34 2023-07-17 19:04:04.064796
RELEASED 35 2023-07-17 19:04:04.072899
GRANTED 36 2023-07-17 19:04:04.074003
REQUEST 35 2023-07-17 19:04:04.074003
RELEASED 36 2023-07-17 19:04:04.081519
GRANTED 34 2023-07-17 19:04:04.082026
REQUEST 36 2023-07-17 19:04:04.082548
RELEASED 34 2023-07-17 19:04:04.090463
GRANTED 35 2023-07-17 19:04:04.091008
RELEASED 35 2023-07-17 19:04:04.098446
GRANTED 36 2023-07-17 19:04:04.098446
RELEASED 36 2023-07-17 19:04:04.107546
REQUEST 36 2023-07-17 19:04:04.108055
GRANTED 36 2023-07-17 19:04:04.108590
RELEASED 36 2023-07-17 19:04:04.117663
REQUEST 37 2023-07-17 19:04:04.138081
GRANTED 37 2023-07-17 19:04:04.138081
RELEASED 37 2023-07-17 19:04:04.144163
REQUEST 37 2023-07-17 19:04:04.145680
GRANTED 37 2023-07-17 19:04:04.146205
RELEASED 37 2023-07-17 19:04:04.153317
REQUEST 37 2023-07-17 19:04:04.153822
GRANTED 37 2023-07-17 19:04:04.154354
RELEASED 37 2023-07-17 19:04:04.160629
REQUEST 38 2023-07-17 19:04:04.184978
GRANTED 38 2023-07-17 19:04:04.185507
RELEASED 38 2023-07-17 19:04:04.194231
REQUEST 38 2023-07-17 19:04:04.195686
GRANTED 38 2023-07-17 19:04:04.195686
REQUEST 39 2023-07-17 19:04:04.201209
RELEASED 38 2023-07-17 19:04:04.203416
GRANTED 39 2023-07-17 19:04:04.203967
REQUEST 38 2023-07-17 19:04:04.204490
RELEASED 39 2023-07-17 19:04:04.210595
GRANTED 38 2023-07-17 19:04:04.210595
REQUEST 39 2023-07-17 19:04:04.211102
RELEASED 38 2023-07-17 19:04:04.217495
GRANTED 39 2023-07-17 19:04:04.218005
RELEASED 39 2023-07-17 19:04:04.224892
REQUEST 39 2023-07-17 19:04:04.225398
GRANTED 39 2023-07-17 19:04:04.225668
RELEASED 39 2023-07-17 19:04:04.232238
REQUEST 40 2023-07-17 19:04:04.296065

GRANTED 40 2023-07-17 19:04:04.296939
RELEASED 40 2023-07-17 19:04:04.315014
REQUEST 40 2023-07-17 19:04:04.317649
GRANTED 40 2023-07-17 19:04:04.318264
RELEASED 40 2023-07-17 19:04:04.337735
REQUEST 40 2023-07-17 19:04:04.340040
GRANTED 40 2023-07-17 19:04:04.340629
RELEASED 40 2023-07-17 19:04:04.354900
REQUEST 41 2023-07-17 19:04:04.387561
GRANTED 41 2023-07-17 19:04:04.387631
RELEASED 41 2023-07-17 19:04:04.395317
REQUEST 41 2023-07-17 19:04:04.395862
GRANTED 41 2023-07-17 19:04:04.396198
RELEASED 41 2023-07-17 19:04:04.403369
REQUEST 41 2023-07-17 19:04:04.403969
GRANTED 41 2023-07-17 19:04:04.404504
RELEASED 41 2023-07-17 19:04:04.410609
REQUEST 42 2023-07-17 19:04:04.418886
GRANTED 42 2023-07-17 19:04:04.418886
RELEASED 42 2023-07-17 19:04:04.426857
REQUEST 42 2023-07-17 19:04:04.427367
GRANTED 42 2023-07-17 19:04:04.427888
RELEASED 42 2023-07-17 19:04:04.435522
REQUEST 42 2023-07-17 19:04:04.437347
GRANTED 42 2023-07-17 19:04:04.437347
RELEASED 42 2023-07-17 19:04:04.444417
REQUEST 43 2023-07-17 19:04:04.479436
GRANTED 43 2023-07-17 19:04:04.479436
RELEASED 43 2023-07-17 19:04:04.484993
REQUEST 43 2023-07-17 19:04:04.486445
GRANTED 43 2023-07-17 19:04:04.486445
RELEASED 43 2023-07-17 19:04:04.492490
REQUEST 43 2023-07-17 19:04:04.493034
GRANTED 43 2023-07-17 19:04:04.493529
REQUEST 44 2023-07-17 19:04:04.495335
RELEASED 43 2023-07-17 19:04:04.500629
GRANTED 44 2023-07-17 19:04:04.500629
RELEASED 44 2023-07-17 19:04:04.507200
REQUEST 44 2023-07-17 19:04:04.508046
GRANTED 44 2023-07-17 19:04:04.508912
RELEASED 44 2023-07-17 19:04:04.516682
REQUEST 44 2023-07-17 19:04:04.517190
GRANTED 44 2023-07-17 19:04:04.517746
RELEASED 44 2023-07-17 19:04:04.524298
REQUEST 45 2023-07-17 19:04:04.572425
GRANTED 45 2023-07-17 19:04:04.572929
RELEASED 45 2023-07-17 19:04:04.579139
REQUEST 45 2023-07-17 19:04:04.579646
GRANTED 45 2023-07-17 19:04:04.579828
RELEASED 45 2023-07-17 19:04:04.585407
REQUEST 45 2023-07-17 19:04:04.586233
GRANTED 45 2023-07-17 19:04:04.586412
RELEASED 45 2023-07-17 19:04:04.593051
REQUEST 46 2023-07-17 19:04:04.634572
GRANTED 46 2023-07-17 19:04:04.635214

RELEASED 46 2023-07-17 19:04:04.641256
REQUEST 46 2023-07-17 19:04:04.642002
GRANTED 46 2023-07-17 19:04:04.642002
RELEASED 46 2023-07-17 19:04:04.648077
REQUEST 46 2023-07-17 19:04:04.648762
GRANTED 46 2023-07-17 19:04:04.648762
RELEASED 46 2023-07-17 19:04:04.655369
REQUEST 47 2023-07-17 19:04:04.666276
GRANTED 47 2023-07-17 19:04:04.666337
RELEASED 47 2023-07-17 19:04:04.674066
REQUEST 47 2023-07-17 19:04:04.674626
GRANTED 47 2023-07-17 19:04:04.675132
RELEASED 47 2023-07-17 19:04:04.682944
REQUEST 47 2023-07-17 19:04:04.683920
GRANTED 47 2023-07-17 19:04:04.683920
RELEASED 47 2023-07-17 19:04:04.691482
REQUEST 48 2023-07-17 19:04:04.796014
GRANTED 48 2023-07-17 19:04:04.797386
RELEASED 48 2023-07-17 19:04:04.821384
REQUEST 48 2023-07-17 19:04:04.826499
GRANTED 48 2023-07-17 19:04:04.828244
REQUEST 49 2023-07-17 19:04:04.842157
RELEASED 48 2023-07-17 19:04:04.847131
GRANTED 49 2023-07-17 19:04:04.847641
REQUEST 48 2023-07-17 19:04:04.848248
RELEASED 49 2023-07-17 19:04:04.860419
GRANTED 48 2023-07-17 19:04:04.861414
REQUEST 49 2023-07-17 19:04:04.861924
RELEASED 48 2023-07-17 19:04:04.869483
GRANTED 49 2023-07-17 19:04:04.869847
RELEASED 49 2023-07-17 19:04:04.877425
REQUEST 49 2023-07-17 19:04:04.877938
GRANTED 49 2023-07-17 19:04:04.878285
RELEASED 49 2023-07-17 19:04:04.885538
REQUEST 50 2023-07-17 19:04:04.953617
GRANTED 50 2023-07-17 19:04:04.954821
RELEASED 50 2023-07-17 19:04:04.983931
REQUEST 51 2023-07-17 19:04:04.985986
GRANTED 51 2023-07-17 19:04:04.987357
REQUEST 50 2023-07-17 19:04:04.988495
RELEASED 51 2023-07-17 19:04:04.003602
GRANTED 50 2023-07-17 19:04:04.004115
REQUEST 51 2023-07-17 19:04:04.004737
RELEASED 50 2023-07-17 19:04:04.018529
GRANTED 51 2023-07-17 19:04:04.019931
REQUEST 50 2023-07-17 19:04:04.020549
RELEASED 51 2023-07-17 19:04:04.029603
GRANTED 50 2023-07-17 19:04:04.030249
REQUEST 51 2023-07-17 19:04:04.030755
RELEASED 50 2023-07-17 19:04:04.038775
GRANTED 51 2023-07-17 19:04:04.038775
RELEASED 51 2023-07-17 19:04:04.049514
REQUEST 52 2023-07-17 19:04:04.058078
GRANTED 52 2023-07-17 19:04:04.058078
RELEASED 52 2023-07-17 19:04:04.065350

REQUEST 52 2023-07-17 19:04:04.065857
GRANTED 52 2023-07-17 19:04:04.066387
RELEASED 52 2023-07-17 19:04:04.075479
REQUEST 52 2023-07-17 19:04:04.075985
GRANTED 52 2023-07-17 19:04:04.076308
RELEASED 52 2023-07-17 19:04:04.083858
REQUEST 53 2023-07-17 19:04:04.155422
GRANTED 53 2023-07-17 19:04:04.157387
RELEASED 53 2023-07-17 19:04:04.181751
REQUEST 53 2023-07-17 19:04:04.186724
GRANTED 53 2023-07-17 19:04:04.189616
RELEASED 53 2023-07-17 19:04:04.208321
REQUEST 53 2023-07-17 19:04:04.209651
GRANTED 53 2023-07-17 19:04:04.210256
RELEASED 53 2023-07-17 19:04:04.220288
REQUEST 54 2023-07-17 19:04:04.277168
GRANTED 54 2023-07-17 19:04:04.278617
REQUEST 55 2023-07-17 19:04:04.293434
RELEASED 54 2023-07-17 19:04:04.300092
GRANTED 55 2023-07-17 19:04:04.301201
REQUEST 54 2023-07-17 19:04:04.301805
RELEASED 55 2023-07-17 19:04:04.315463
GRANTED 54 2023-07-17 19:04:04.315972
REQUEST 55 2023-07-17 19:04:04.316590
RELEASED 54 2023-07-17 19:04:04.326405
GRANTED 55 2023-07-17 19:04:04.326405
REQUEST 54 2023-07-17 19:04:04.326912
RELEASED 55 2023-07-17 19:04:04.334583
GRANTED 54 2023-07-17 19:04:04.335520
REQUEST 55 2023-07-17 19:04:04.336028
RELEASED 54 2023-07-17 19:04:04.343225
GRANTED 55 2023-07-17 19:04:04.343225
REQUEST 56 2023-07-17 19:04:04.351926
RELEASED 55 2023-07-17 19:04:04.352499
GRANTED 56 2023-07-17 19:04:04.353006
RELEASED 56 2023-07-17 19:04:04.360665
REQUEST 56 2023-07-17 19:04:04.361603
GRANTED 56 2023-07-17 19:04:04.362462
RELEASED 56 2023-07-17 19:04:04.371627
REQUEST 56 2023-07-17 19:04:04.372133
GRANTED 56 2023-07-17 19:04:04.372589
RELEASED 56 2023-07-17 19:04:04.380081
REQUEST 57 2023-07-17 19:04:04.460351
GRANTED 57 2023-07-17 19:04:04.460858
RELEASED 57 2023-07-17 19:04:04.470081
REQUEST 57 2023-07-17 19:04:04.470588
GRANTED 57 2023-07-17 19:04:04.470588
RELEASED 57 2023-07-17 19:04:04.479745
REQUEST 57 2023-07-17 19:04:04.480251
GRANTED 57 2023-07-17 19:04:04.480391
RELEASED 57 2023-07-17 19:04:04.487986
REQUEST 58 2023-07-17 19:04:04.506483
GRANTED 58 2023-07-17 19:04:04.506483
RELEASED 58 2023-07-17 19:04:04.514585
REQUEST 58 2023-07-17 19:04:04.515699

GRANTED 58 2023-07-17 19:04:04.515937
RELEASED 58 2023-07-17 19:04:04.523185
REQUEST 58 2023-07-17 19:04:04.524223
GRANTED 58 2023-07-17 19:04:04.524223
RELEASED 58 2023-07-17 19:04:04.530509
REQUEST 59 2023-07-17 19:04:04.625066
GRANTED 59 2023-07-17 19:04:04.626336
REQUEST 61 2023-07-17 19:04:04.634010
RELEASED 59 2023-07-17 19:04:04.648351
GRANTED 61 2023-07-17 19:04:04.648863
REQUEST 59 2023-07-17 19:04:04.649580
RELEASED 61 2023-07-17 19:04:04.660500
GRANTED 59 2023-07-17 19:04:04.660500
REQUEST 61 2023-07-17 19:04:04.662046
RELEASED 59 2023-07-17 19:04:04.670411
GRANTED 61 2023-07-17 19:04:04.670411
REQUEST 59 2023-07-17 19:04:04.670921
RELEASED 61 2023-07-17 19:04:04.676751
GRANTED 59 2023-07-17 19:04:04.676751
REQUEST 61 2023-07-17 19:04:04.677357
RELEASED 59 2023-07-17 19:04:04.683726
GRANTED 61 2023-07-17 19:04:04.683726
RELEASED 61 2023-07-17 19:04:04.691659
REQUEST 62 2023-07-17 19:04:04.724604
GRANTED 62 2023-07-17 19:04:04.724719
RELEASED 62 2023-07-17 19:04:04.731266
REQUEST 62 2023-07-17 19:04:04.732418
GRANTED 62 2023-07-17 19:04:04.732418
RELEASED 62 2023-07-17 19:04:04.739985
REQUEST 62 2023-07-17 19:04:04.740531
GRANTED 62 2023-07-17 19:04:04.740531
RELEASED 62 2023-07-17 19:04:04.747089
REQUEST 60 2023-07-17 19:04:04.755736
GRANTED 60 2023-07-17 19:04:04.755736
RELEASED 60 2023-07-17 19:04:04.763441
REQUEST 60 2023-07-17 19:04:04.763950
GRANTED 60 2023-07-17 19:04:04.764491
RELEASED 60 2023-07-17 19:04:04.773636
REQUEST 60 2023-07-17 19:04:04.774142
GRANTED 60 2023-07-17 19:04:04.774446
RELEASED 60 2023-07-17 19:04:04.780513
REQUEST 63 2023-07-17 19:04:04.837305
GRANTED 63 2023-07-17 19:04:04.838674
RELEASED 63 2023-07-17 19:04:04.858083
REQUEST 63 2023-07-17 19:04:04.860380
GRANTED 63 2023-07-17 19:04:04.861933
RELEASED 63 2023-07-17 19:04:04.879503
REQUEST 63 2023-07-17 19:04:04.881599
GRANTED 63 2023-07-17 19:04:04.882387
RELEASED 63 2023-07-17 19:04:04.894400

▼ n = 128, r = 3, e k = 0 - 10,104 segundos

▼ results.txt (384 linhas 128x3)

```
Process Id: 1 - 2023-07-17 19:05:01.620118
Process Id: 0 - 2023-07-17 19:05:01.630707
Process Id: 2 - 2023-07-17 19:05:01.665267
Process Id: 1 - 2023-07-17 19:05:01.692492
Process Id: 4 - 2023-07-17 19:05:01.723529
Process Id: 3 - 2023-07-17 19:05:01.788417
Process Id: 0 - 2023-07-17 19:05:01.837291
Process Id: 5 - 2023-07-17 19:05:01.870287
Process Id: 2 - 2023-07-17 19:05:01.881291
Process Id: 1 - 2023-07-17 19:05:01.902023
Process Id: 6 - 2023-07-17 19:05:01.938147
Process Id: 4 - 2023-07-17 19:05:01.968913
Process Id: 7 - 2023-07-17 19:05:01.989891
Process Id: 3 - 2023-07-17 19:05:02.007314
Process Id: 8 - 2023-07-17 19:05:02.023661
Process Id: 0 - 2023-07-17 19:05:02.034571
Process Id: 5 - 2023-07-17 19:05:02.066665
Process Id: 2 - 2023-07-17 19:05:02.083716
Process Id: 9 - 2023-07-17 19:05:02.104352
Process Id: 6 - 2023-07-17 19:05:02.129401
Process Id: 4 - 2023-07-17 19:05:02.149720
Process Id: 7 - 2023-07-17 19:05:02.165361
Process Id: 3 - 2023-07-17 19:05:02.180374
Process Id: 8 - 2023-07-17 19:05:02.190047
Process Id: 5 - 2023-07-17 19:05:02.228884
Process Id: 10 - 2023-07-17 19:05:02.252159
Process Id: 12 - 2023-07-17 19:05:02.280225
Process Id: 11 - 2023-07-17 19:05:02.296907
Process Id: 9 - 2023-07-17 19:05:02.310375
Process Id: 6 - 2023-07-17 19:05:02.325378
Process Id: 13 - 2023-07-17 19:05:02.343430
Process Id: 7 - 2023-07-17 19:05:02.358977
Process Id: 14 - 2023-07-17 19:05:02.375378
Process Id: 15 - 2023-07-17 19:05:02.404379
Process Id: 8 - 2023-07-17 19:05:02.415573
Process Id: 16 - 2023-07-17 19:05:02.430097
Process Id: 10 - 2023-07-17 19:05:02.455562
Process Id: 12 - 2023-07-17 19:05:02.472246
Process Id: 11 - 2023-07-17 19:05:02.485634
Process Id: 9 - 2023-07-17 19:05:02.498097
Process Id: 17 - 2023-07-17 19:05:02.519547
Process Id: 13 - 2023-07-17 19:05:02.534855
Process Id: 14 - 2023-07-17 19:05:02.561146
Process Id: 15 - 2023-07-17 19:05:02.591317
Process Id: 16 - 2023-07-17 19:05:02.609051
Process Id: 10 - 2023-07-17 19:05:02.646170
Process Id: 18 - 2023-07-17 19:05:02.672692
Process Id: 12 - 2023-07-17 19:05:02.706334
Process Id: 11 - 2023-07-17 19:05:02.716947
Process Id: 17 - 2023-07-17 19:05:02.741772
Process Id: 19 - 2023-07-17 19:05:02.763543
```

Process Id: 20 - 2023-07-17 19:05:02.794715
Process Id: 13 - 2023-07-17 19:05:02.811383
Process Id: 14 - 2023-07-17 19:05:02.848529
Process Id: 15 - 2023-07-17 19:05:02.864899
Process Id: 21 - 2023-07-17 19:05:02.891244
Process Id: 16 - 2023-07-17 19:05:02.907553
Process Id: 18 - 2023-07-17 19:05:02.930313
Process Id: 22 - 2023-07-17 19:05:02.942361
Process Id: 23 - 2023-07-17 19:05:02.960251
Process Id: 24 - 2023-07-17 19:05:02.976144
Process Id: 17 - 2023-07-17 19:05:02.990349
Process Id: 19 - 2023-07-17 19:05:03.000252
Process Id: 20 - 2023-07-17 19:05:03.031748
Process Id: 25 - 2023-07-17 19:05:03.049292
Process Id: 21 - 2023-07-17 19:05:03.063779
Process Id: 26 - 2023-07-17 19:05:03.076076
Process Id: 18 - 2023-07-17 19:05:03.089291
Process Id: 27 - 2023-07-17 19:05:03.122114
Process Id: 22 - 2023-07-17 19:05:03.149861
Process Id: 28 - 2023-07-17 19:05:03.169804
Process Id: 23 - 2023-07-17 19:05:03.185438
Process Id: 24 - 2023-07-17 19:05:03.208120
Process Id: 19 - 2023-07-17 19:05:03.224650
Process Id: 29 - 2023-07-17 19:05:03.246569
Process Id: 20 - 2023-07-17 19:05:03.278366
Process Id: 25 - 2023-07-17 19:05:03.305576
Process Id: 21 - 2023-07-17 19:05:03.325541
Process Id: 26 - 2023-07-17 19:05:03.350077
Process Id: 30 - 2023-07-17 19:05:03.367483
Process Id: 31 - 2023-07-17 19:05:03.384411
Process Id: 27 - 2023-07-17 19:05:03.410451
Process Id: 22 - 2023-07-17 19:05:03.426081
Process Id: 28 - 2023-07-17 19:05:03.450911
Process Id: 23 - 2023-07-17 19:05:03.475621
Process Id: 32 - 2023-07-17 19:05:03.494732
Process Id: 24 - 2023-07-17 19:05:03.528602
Process Id: 33 - 2023-07-17 19:05:03.548050
Process Id: 29 - 2023-07-17 19:05:03.563034
Process Id: 25 - 2023-07-17 19:05:03.578346
Process Id: 34 - 2023-07-17 19:05:03.594388
Process Id: 26 - 2023-07-17 19:05:03.610430
Process Id: 30 - 2023-07-17 19:05:03.629490
Process Id: 35 - 2023-07-17 19:05:03.645211
Process Id: 36 - 2023-07-17 19:05:03.669830
Process Id: 31 - 2023-07-17 19:05:03.687750
Process Id: 27 - 2023-07-17 19:05:03.703895
Process Id: 28 - 2023-07-17 19:05:03.719166
Process Id: 37 - 2023-07-17 19:05:03.732318
Process Id: 32 - 2023-07-17 19:05:03.753539
Process Id: 38 - 2023-07-17 19:05:03.765882
Process Id: 33 - 2023-07-17 19:05:03.784805
Process Id: 29 - 2023-07-17 19:05:03.807055
Process Id: 39 - 2023-07-17 19:05:03.824095
Process Id: 34 - 2023-07-17 19:05:03.837741
Process Id: 30 - 2023-07-17 19:05:03.851054

Process Id: 35 - 2023-07-17 19:05:03.864818
Process Id: 40 - 2023-07-17 19:05:03.885521
Process Id: 36 - 2023-07-17 19:05:03.906481
Process Id: 31 - 2023-07-17 19:05:03.930647
Process Id: 37 - 2023-07-17 19:05:03.951512
Process Id: 32 - 2023-07-17 19:05:03.969766
Process Id: 38 - 2023-07-17 19:05:03.986939
Process Id: 41 - 2023-07-17 19:05:04.011695
Process Id: 33 - 2023-07-17 19:05:04.036198
Process Id: 39 - 2023-07-17 19:05:04.053583
Process Id: 34 - 2023-07-17 19:05:04.089168
Process Id: 42 - 2023-07-17 19:05:04.156322
Process Id: 35 - 2023-07-17 19:05:04.175466
Process Id: 40 - 2023-07-17 19:05:04.198948
Process Id: 36 - 2023-07-17 19:05:04.225857
Process Id: 43 - 2023-07-17 19:05:04.243308
Process Id: 44 - 2023-07-17 19:05:04.285087
Process Id: 37 - 2023-07-17 19:05:04.308282
Process Id: 38 - 2023-07-17 19:05:04.325977
Process Id: 41 - 2023-07-17 19:05:04.356498
Process Id: 45 - 2023-07-17 19:05:04.398058
Process Id: 46 - 2023-07-17 19:05:04.427584
Process Id: 39 - 2023-07-17 19:05:04.456091
Process Id: 47 - 2023-07-17 19:05:04.479173
Process Id: 42 - 2023-07-17 19:05:04.511346
Process Id: 40 - 2023-07-17 19:05:04.561861
Process Id: 43 - 2023-07-17 19:05:04.590455
Process Id: 44 - 2023-07-17 19:05:04.661754
Process Id: 48 - 2023-07-17 19:05:04.698016
Process Id: 41 - 2023-07-17 19:05:04.726141
Process Id: 45 - 2023-07-17 19:05:04.738906
Process Id: 49 - 2023-07-17 19:05:04.758810
Process Id: 46 - 2023-07-17 19:05:04.775599
Process Id: 47 - 2023-07-17 19:05:04.788376
Process Id: 53 - 2023-07-17 19:05:04.809301
Process Id: 42 - 2023-07-17 19:05:04.824180
Process Id: 50 - 2023-07-17 19:05:04.838218
Process Id: 43 - 2023-07-17 19:05:04.851430
Process Id: 52 - 2023-07-17 19:05:04.867327
Process Id: 51 - 2023-07-17 19:05:04.881242
Process Id: 44 - 2023-07-17 19:05:04.907305
Process Id: 48 - 2023-07-17 19:05:04.919724
Process Id: 45 - 2023-07-17 19:05:04.947032
Process Id: 49 - 2023-07-17 19:05:04.959251
Process Id: 46 - 2023-07-17 19:05:04.976754
Process Id: 47 - 2023-07-17 19:05:05.007867
Process Id: 53 - 2023-07-17 19:05:05.025636
Process Id: 50 - 2023-07-17 19:05:05.080177
Process Id: 52 - 2023-07-17 19:05:05.094129
Process Id: 51 - 2023-07-17 19:05:05.111952
Process Id: 48 - 2023-07-17 19:05:05.128551
Process Id: 49 - 2023-07-17 19:05:05.143913
Process Id: 55 - 2023-07-17 19:05:05.159291
Process Id: 56 - 2023-07-17 19:05:05.181148
Process Id: 53 - 2023-07-17 19:05:05.194708

Process Id: 50 - 2023-07-17 19:05:05.208408
Process Id: 52 - 2023-07-17 19:05:05.236854
Process Id: 57 - 2023-07-17 19:05:05.255783
Process Id: 51 - 2023-07-17 19:05:05.288059
Process Id: 55 - 2023-07-17 19:05:05.306239
Process Id: 56 - 2023-07-17 19:05:05.321060
Process Id: 59 - 2023-07-17 19:05:05.337542
Process Id: 54 - 2023-07-17 19:05:05.349818
Process Id: 60 - 2023-07-17 19:05:05.365498
Process Id: 57 - 2023-07-17 19:05:05.377201
Process Id: 55 - 2023-07-17 19:05:05.390242
Process Id: 56 - 2023-07-17 19:05:05.411319
Process Id: 59 - 2023-07-17 19:05:05.448544
Process Id: 54 - 2023-07-17 19:05:05.463938
Process Id: 60 - 2023-07-17 19:05:05.487827
Process Id: 57 - 2023-07-17 19:05:05.507399
Process Id: 59 - 2023-07-17 19:05:05.526489
Process Id: 54 - 2023-07-17 19:05:05.555217
Process Id: 60 - 2023-07-17 19:05:05.569781
Process Id: 58 - 2023-07-17 19:05:05.589548
Process Id: 58 - 2023-07-17 19:05:05.616490
Process Id: 58 - 2023-07-17 19:05:05.635832
Process Id: 62 - 2023-07-17 19:05:05.742818
Process Id: 62 - 2023-07-17 19:05:05.748293
Process Id: 63 - 2023-07-17 19:05:05.785912
Process Id: 62 - 2023-07-17 19:05:05.803800
Process Id: 63 - 2023-07-17 19:05:05.817553
Process Id: 61 - 2023-07-17 19:05:05.860350
Process Id: 63 - 2023-07-17 19:05:05.875796
Process Id: 61 - 2023-07-17 19:05:05.914795
Process Id: 61 - 2023-07-17 19:05:05.939111
Process Id: 67 - 2023-07-17 19:05:06.014527
Process Id: 66 - 2023-07-17 19:05:06.029944
Process Id: 67 - 2023-07-17 19:05:06.045842
Process Id: 66 - 2023-07-17 19:05:06.058314
Process Id: 67 - 2023-07-17 19:05:06.077359
Process Id: 65 - 2023-07-17 19:05:06.090379
Process Id: 66 - 2023-07-17 19:05:06.105878
Process Id: 65 - 2023-07-17 19:05:06.130938
Process Id: 65 - 2023-07-17 19:05:06.155331
Process Id: 64 - 2023-07-17 19:05:06.195665
Process Id: 69 - 2023-07-17 19:05:06.247609
Process Id: 64 - 2023-07-17 19:05:06.263029
Process Id: 69 - 2023-07-17 19:05:06.281940
Process Id: 64 - 2023-07-17 19:05:06.292100
Process Id: 69 - 2023-07-17 19:05:06.306237
Process Id: 71 - 2023-07-17 19:05:06.495940
Process Id: 68 - 2023-07-17 19:05:06.505650
Process Id: 71 - 2023-07-17 19:05:06.516675
Process Id: 68 - 2023-07-17 19:05:06.535547
Process Id: 71 - 2023-07-17 19:05:06.555182
Process Id: 70 - 2023-07-17 19:05:06.577060
Process Id: 68 - 2023-07-17 19:05:06.591787
Process Id: 70 - 2023-07-17 19:05:06.615455
Process Id: 70 - 2023-07-17 19:05:06.645625

Process Id: 72 - 2023-07-17 19:05:06.782663
Process Id: 72 - 2023-07-17 19:05:06.798808
Process Id: 72 - 2023-07-17 19:05:06.827514
Process Id: 75 - 2023-07-17 19:05:06.940971
Process Id: 73 - 2023-07-17 19:05:06.964814
Process Id: 75 - 2023-07-17 19:05:06.977709
Process Id: 74 - 2023-07-17 19:05:07.048151
Process Id: 73 - 2023-07-17 19:05:07.052487
Process Id: 75 - 2023-07-17 19:05:07.075290
Process Id: 74 - 2023-07-17 19:05:07.110192
Process Id: 73 - 2023-07-17 19:05:07.156825
Process Id: 76 - 2023-07-17 19:05:07.169870
Process Id: 74 - 2023-07-17 19:05:07.185825
Process Id: 76 - 2023-07-17 19:05:07.198931
Process Id: 76 - 2023-07-17 19:05:07.224292
Process Id: 77 - 2023-07-17 19:05:07.250379
Process Id: 78 - 2023-07-17 19:05:07.274272
Process Id: 79 - 2023-07-17 19:05:07.287730
Process Id: 77 - 2023-07-17 19:05:07.304593
Process Id: 80 - 2023-07-17 19:05:07.320166
Process Id: 78 - 2023-07-17 19:05:07.335778
Process Id: 79 - 2023-07-17 19:05:07.353818
Process Id: 77 - 2023-07-17 19:05:07.373286
Process Id: 80 - 2023-07-17 19:05:07.396092
Process Id: 78 - 2023-07-17 19:05:07.439336
Process Id: 79 - 2023-07-17 19:05:07.465238
Process Id: 80 - 2023-07-17 19:05:07.486225
Process Id: 81 - 2023-07-17 19:05:07.565964
Process Id: 83 - 2023-07-17 19:05:07.572355
Process Id: 81 - 2023-07-17 19:05:07.587667
Process Id: 83 - 2023-07-17 19:05:07.633963
Process Id: 81 - 2023-07-17 19:05:07.687930
Process Id: 82 - 2023-07-17 19:05:07.716630
Process Id: 83 - 2023-07-17 19:05:07.741765
Process Id: 82 - 2023-07-17 19:05:07.828511
Process Id: 82 - 2023-07-17 19:05:07.910251
Process Id: 85 - 2023-07-17 19:05:07.940524
Process Id: 86 - 2023-07-17 19:05:08.054333
Process Id: 88 - 2023-07-17 19:05:08.124770
Process Id: 85 - 2023-07-17 19:05:08.175478
Process Id: 84 - 2023-07-17 19:05:08.195251
Process Id: 87 - 2023-07-17 19:05:08.222891
Process Id: 86 - 2023-07-17 19:05:08.251301
Process Id: 88 - 2023-07-17 19:05:08.289804
Process Id: 85 - 2023-07-17 19:05:08.306181
Process Id: 84 - 2023-07-17 19:05:08.327907
Process Id: 91 - 2023-07-17 19:05:08.363131
Process Id: 89 - 2023-07-17 19:05:08.392199
Process Id: 87 - 2023-07-17 19:05:08.409478
Process Id: 86 - 2023-07-17 19:05:08.424751
Process Id: 88 - 2023-07-17 19:05:08.447032
Process Id: 84 - 2023-07-17 19:05:08.468966
Process Id: 91 - 2023-07-17 19:05:08.511910
Process Id: 89 - 2023-07-17 19:05:08.531140
Process Id: 87 - 2023-07-17 19:05:08.546284

Process Id: 90 - 2023-07-17 19:05:08.569719
Process Id: 91 - 2023-07-17 19:05:08.586837
Process Id: 89 - 2023-07-17 19:05:08.609246
Process Id: 90 - 2023-07-17 19:05:08.642324
Process Id: 90 - 2023-07-17 19:05:08.661218
Process Id: 92 - 2023-07-17 19:05:08.729750
Process Id: 92 - 2023-07-17 19:05:08.736616
Process Id: 92 - 2023-07-17 19:05:08.778253
Process Id: 96 - 2023-07-17 19:05:08.799315
Process Id: 96 - 2023-07-17 19:05:08.841696
Process Id: 94 - 2023-07-17 19:05:08.869439
Process Id: 96 - 2023-07-17 19:05:08.888076
Process Id: 94 - 2023-07-17 19:05:08.907557
Process Id: 94 - 2023-07-17 19:05:08.942070
Process Id: 93 - 2023-07-17 19:05:08.988914
Process Id: 93 - 2023-07-17 19:05:09.011824
Process Id: 95 - 2023-07-17 19:05:09.024900
Process Id: 93 - 2023-07-17 19:05:09.049278
Process Id: 95 - 2023-07-17 19:05:09.086021
Process Id: 95 - 2023-07-17 19:05:09.110294
Process Id: 98 - 2023-07-17 19:05:09.188429
Process Id: 98 - 2023-07-17 19:05:09.207188
Process Id: 98 - 2023-07-17 19:05:09.221389
Process Id: 97 - 2023-07-17 19:05:09.320983
Process Id: 97 - 2023-07-17 19:05:09.329505
Process Id: 97 - 2023-07-17 19:05:09.348968
Process Id: 101 - 2023-07-17 19:05:09.360291
Process Id: 101 - 2023-07-17 19:05:09.382911
Process Id: 101 - 2023-07-17 19:05:09.403646
Process Id: 100 - 2023-07-17 19:05:09.458818
Process Id: 100 - 2023-07-17 19:05:09.470804
Process Id: 100 - 2023-07-17 19:05:09.481042
Process Id: 102 - 2023-07-17 19:05:09.578680
Process Id: 102 - 2023-07-17 19:05:09.596499
Process Id: 102 - 2023-07-17 19:05:09.614038
Process Id: 99 - 2023-07-17 19:05:09.707517
Process Id: 99 - 2023-07-17 19:05:09.710597
Process Id: 99 - 2023-07-17 19:05:09.719727
Process Id: 105 - 2023-07-17 19:05:09.832662
Process Id: 105 - 2023-07-17 19:05:09.835241
Process Id: 105 - 2023-07-17 19:05:09.846102
Process Id: 103 - 2023-07-17 19:05:09.880124
Process Id: 104 - 2023-07-17 19:05:09.882802
Process Id: 103 - 2023-07-17 19:05:09.893521
Process Id: 104 - 2023-07-17 19:05:09.904615
Process Id: 103 - 2023-07-17 19:05:09.913396
Process Id: 104 - 2023-07-17 19:05:09.922521
Process Id: 106 - 2023-07-17 19:05:10.209175
Process Id: 106 - 2023-07-17 19:05:10.211640
Process Id: 106 - 2023-07-17 19:05:10.220190
Process Id: 107 - 2023-07-17 19:05:10.439876
Process Id: 109 - 2023-07-17 19:05:10.442709
Process Id: 107 - 2023-07-17 19:05:10.450200
Process Id: 109 - 2023-07-17 19:05:10.459581
Process Id: 107 - 2023-07-17 19:05:10.466325

Process Id: 109 - 2023-07-17 19:05:10.474483
Process Id: 110 - 2023-07-17 19:05:10.482050
Process Id: 110 - 2023-07-17 19:05:10.494098
Process Id: 110 - 2023-07-17 19:05:10.504395
Process Id: 108 - 2023-07-17 19:05:10.579410
Process Id: 111 - 2023-07-17 19:05:10.586555
Process Id: 108 - 2023-07-17 19:05:10.593378
Process Id: 111 - 2023-07-17 19:05:10.600268
Process Id: 108 - 2023-07-17 19:05:10.607030
Process Id: 111 - 2023-07-17 19:05:10.614724
Process Id: 112 - 2023-07-17 19:05:10.678194
Process Id: 112 - 2023-07-17 19:05:10.680945
Process Id: 112 - 2023-07-17 19:05:10.689154
Process Id: 113 - 2023-07-17 19:05:10.809656
Process Id: 113 - 2023-07-17 19:05:10.816900
Process Id: 113 - 2023-07-17 19:05:10.826455
Process Id: 115 - 2023-07-17 19:05:10.893450
Process Id: 115 - 2023-07-17 19:05:10.903674
Process Id: 115 - 2023-07-17 19:05:10.911071
Process Id: 117 - 2023-07-17 19:05:10.948396
Process Id: 117 - 2023-07-17 19:05:10.956814
Process Id: 117 - 2023-07-17 19:05:10.965094
Process Id: 114 - 2023-07-17 19:05:11.058908
Process Id: 114 - 2023-07-17 19:05:11.069069
Process Id: 114 - 2023-07-17 19:05:11.077860
Process Id: 118 - 2023-07-17 19:05:11.089231
Process Id: 118 - 2023-07-17 19:05:11.097410
Process Id: 116 - 2023-07-17 19:05:11.107403
Process Id: 118 - 2023-07-17 19:05:11.119795
Process Id: 116 - 2023-07-17 19:05:11.130027
Process Id: 116 - 2023-07-17 19:05:11.142496
Process Id: 119 - 2023-07-17 19:05:11.227497
Process Id: 119 - 2023-07-17 19:05:11.236942
Process Id: 119 - 2023-07-17 19:05:11.244928
Process Id: 120 - 2023-07-17 19:05:11.338040
Process Id: 120 - 2023-07-17 19:05:11.340638
Process Id: 120 - 2023-07-17 19:05:11.349623
Process Id: 122 - 2023-07-17 19:05:11.399555
Process Id: 122 - 2023-07-17 19:05:11.403630
Process Id: 122 - 2023-07-17 19:05:11.414277
Process Id: 121 - 2023-07-17 19:05:11.538575
Process Id: 121 - 2023-07-17 19:05:11.546149
Process Id: 121 - 2023-07-17 19:05:11.555594
Process Id: 127 - 2023-07-17 19:05:11.574022
Process Id: 123 - 2023-07-17 19:05:11.583800
Process Id: 124 - 2023-07-17 19:05:11.594584
Process Id: 127 - 2023-07-17 19:05:11.604199
Process Id: 123 - 2023-07-17 19:05:11.612324
Process Id: 124 - 2023-07-17 19:05:11.623076
Process Id: 127 - 2023-07-17 19:05:11.631090
Process Id: 123 - 2023-07-17 19:05:11.640252
Process Id: 124 - 2023-07-17 19:05:11.655169
Process Id: 126 - 2023-07-17 19:05:11.669527
Process Id: 126 - 2023-07-17 19:05:11.683168
Process Id: 125 - 2023-07-17 19:05:11.696031

```
Process Id: 126 - 2023-07-17 19:05:11.705095
Process Id: 125 - 2023-07-17 19:05:11.713423
Process Id: 125 - 2023-07-17 19:05:11.723797
```

▼ serverlog.txt

```
Message Process ID Time
REQUEST 1 2023-07-17 19:05:05.613015
GRANTED 1 2023-07-17 19:05:05.617583
REQUEST 0 2023-07-17 19:05:05.618234
RELEASED 1 2023-07-17 19:05:05.621127
GRANTED 0 2023-07-17 19:05:05.623039
REQUEST 2 2023-07-17 19:05:05.629684
REQUEST 1 2023-07-17 19:05:05.630190
REQUEST 4 2023-07-17 19:05:05.643571
REQUEST 3 2023-07-17 19:05:05.645932
RELEASED 0 2023-07-17 19:05:05.655753
GRANTED 2 2023-07-17 19:05:05.656459
REQUEST 0 2023-07-17 19:05:05.659170
REQUEST 5 2023-07-17 19:05:05.660033
RELEASED 2 2023-07-17 19:05:05.672823
GRANTED 1 2023-07-17 19:05:05.680115
REQUEST 2 2023-07-17 19:05:05.692492
RELEASED 1 2023-07-17 19:05:05.711552
GRANTED 4 2023-07-17 19:05:05.716446
REQUEST 1 2023-07-17 19:05:05.718317
REQUEST 6 2023-07-17 19:05:05.736913
RELEASED 4 2023-07-17 19:05:05.745704
GRANTED 3 2023-07-17 19:05:05.769197
REQUEST 4 2023-07-17 19:05:05.788417
REQUEST 7 2023-07-17 19:05:05.804056
RELEASED 3 2023-07-17 19:05:05.834291
GRANTED 0 2023-07-17 19:05:05.834291
REQUEST 3 2023-07-17 19:05:05.836292
REQUEST 8 2023-07-17 19:05:05.858030
RELEASED 0 2023-07-17 19:05:05.865912
GRANTED 5 2023-07-17 19:05:05.868920
REQUEST 0 2023-07-17 19:05:05.870287
RELEASED 5 2023-07-17 19:05:05.878292
GRANTED 2 2023-07-17 19:05:05.878292
REQUEST 5 2023-07-17 19:05:05.880291
RELEASED 2 2023-07-17 19:05:05.899464
GRANTED 1 2023-07-17 19:05:05.900464
REQUEST 2 2023-07-17 19:05:05.910216
RELEASED 1 2023-07-17 19:05:05.919215
GRANTED 6 2023-07-17 19:05:05.920214
REQUEST 9 2023-07-17 19:05:05.945319
RELEASED 6 2023-07-17 19:05:05.959475
GRANTED 4 2023-07-17 19:05:05.959475
REQUEST 6 2023-07-17 19:05:05.960476
RELEASED 4 2023-07-17 19:05:05.978483
GRANTED 7 2023-07-17 19:05:05.981836
```


REQUEST 4 2023-07-17 19:05:05.985055
RELEASED 7 2023-07-17 19:05:05.001416
GRANTED 3 2023-07-17 19:05:05.001924
REQUEST 7 2023-07-17 19:05:05.002933
RELEASED 3 2023-07-17 19:05:05.016846
GRANTED 8 2023-07-17 19:05:05.017846
REQUEST 3 2023-07-17 19:05:05.018626
RELEASED 8 2023-07-17 19:05:05.033219
GRANTED 0 2023-07-17 19:05:05.033219
REQUEST 8 2023-07-17 19:05:05.035079
RELEASED 0 2023-07-17 19:05:05.046947
GRANTED 5 2023-07-17 19:05:05.047947
RELEASED 5 2023-07-17 19:05:05.079192
GRANTED 2 2023-07-17 19:05:05.080192
REQUEST 5 2023-07-17 19:05:05.083716
REQUEST 10 2023-07-17 19:05:05.084719
RELEASED 2 2023-07-17 19:05:05.100180
REQUEST 12 2023-07-17 19:05:05.100687
GRANTED 9 2023-07-17 19:05:05.100687
REQUEST 11 2023-07-17 19:05:05.114688
RELEASED 9 2023-07-17 19:05:05.115688
GRANTED 6 2023-07-17 19:05:05.128400
REQUEST 9 2023-07-17 19:05:05.129401
RELEASED 6 2023-07-17 19:05:05.141966
GRANTED 4 2023-07-17 19:05:05.143989
REQUEST 6 2023-07-17 19:05:05.145478
RELEASED 4 2023-07-17 19:05:05.158822
GRANTED 7 2023-07-17 19:05:05.159825
RELEASED 7 2023-07-17 19:05:05.174882
GRANTED 3 2023-07-17 19:05:05.176201
REQUEST 13 2023-07-17 19:05:05.176917
REQUEST 7 2023-07-17 19:05:05.178311
REQUEST 14 2023-07-17 19:05:05.181036
RELEASED 3 2023-07-17 19:05:05.188049
GRANTED 8 2023-07-17 19:05:05.188049
REQUEST 15 2023-07-17 19:05:05.215673
RELEASED 8 2023-07-17 19:05:05.216670
GRANTED 5 2023-07-17 19:05:05.217670
REQUEST 8 2023-07-17 19:05:05.218622
RELEASED 5 2023-07-17 19:05:05.247781
GRANTED 10 2023-07-17 19:05:05.248127
REQUEST 16 2023-07-17 19:05:05.277225
RELEASED 10 2023-07-17 19:05:05.278226
GRANTED 12 2023-07-17 19:05:05.278226
REQUEST 10 2023-07-17 19:05:05.283636
RELEASED 12 2023-07-17 19:05:05.288645
GRANTED 11 2023-07-17 19:05:05.291302
REQUEST 12 2023-07-17 19:05:05.296644
RELEASED 11 2023-07-17 19:05:05.307081
GRANTED 9 2023-07-17 19:05:05.308334
REQUEST 11 2023-07-17 19:05:05.309366
RELEASED 9 2023-07-17 19:05:05.321181
GRANTED 6 2023-07-17 19:05:05.321688
REQUEST 9 2023-07-17 19:05:05.322697
REQUEST 17 2023-07-17 19:05:05.337269

RELEASED 6 2023-07-17 19:05:05.338742
GRANTED 13 2023-07-17 19:05:05.338742
RELEASED 13 2023-07-17 19:05:05.356975
GRANTED 7 2023-07-17 19:05:05.357976
REQUEST 13 2023-07-17 19:05:05.358977
RELEASED 7 2023-07-17 19:05:05.369269
GRANTED 14 2023-07-17 19:05:05.369269
RELEASED 14 2023-07-17 19:05:05.393296
GRANTED 15 2023-07-17 19:05:05.393296
REQUEST 14 2023-07-17 19:05:05.402475
RELEASED 15 2023-07-17 19:05:05.413242
GRANTED 8 2023-07-17 19:05:05.413749
REQUEST 15 2023-07-17 19:05:05.418177
RELEASED 8 2023-07-17 19:05:05.427709
GRANTED 16 2023-07-17 19:05:05.428702
RELEASED 16 2023-07-17 19:05:05.450284
GRANTED 10 2023-07-17 19:05:05.451285
REQUEST 16 2023-07-17 19:05:05.454220
RELEASED 10 2023-07-17 19:05:05.469223
GRANTED 12 2023-07-17 19:05:05.469223
REQUEST 10 2023-07-17 19:05:05.471738
RELEASED 12 2023-07-17 19:05:05.483625
GRANTED 11 2023-07-17 19:05:05.484634
REQUEST 18 2023-07-17 19:05:05.485634
REQUEST 12 2023-07-17 19:05:05.486363
RELEASED 11 2023-07-17 19:05:05.495705
GRANTED 9 2023-07-17 19:05:05.496918
REQUEST 11 2023-07-17 19:05:05.498605
RELEASED 9 2023-07-17 19:05:05.517026
GRANTED 17 2023-07-17 19:05:05.518240
RELEASED 17 2023-07-17 19:05:05.533853
GRANTED 13 2023-07-17 19:05:05.533853
REQUEST 17 2023-07-17 19:05:05.538319
REQUEST 19 2023-07-17 19:05:05.539328
REQUEST 20 2023-07-17 19:05:05.554328
RELEASED 13 2023-07-17 19:05:05.559146
GRANTED 14 2023-07-17 19:05:05.560147
REQUEST 13 2023-07-17 19:05:05.569671
RELEASED 14 2023-07-17 19:05:05.589316
GRANTED 15 2023-07-17 19:05:05.590316
REQUEST 14 2023-07-17 19:05:05.591317
RELEASED 15 2023-07-17 19:05:05.606583
GRANTED 16 2023-07-17 19:05:05.607582
REQUEST 15 2023-07-17 19:05:05.617302
RELEASED 16 2023-07-17 19:05:05.638584
GRANTED 10 2023-07-17 19:05:05.639783
REQUEST 21 2023-07-17 19:05:05.642039
REQUEST 16 2023-07-17 19:05:05.646170
RELEASED 10 2023-07-17 19:05:05.668684
GRANTED 18 2023-07-17 19:05:05.670164
RELEASED 18 2023-07-17 19:05:05.693651
GRANTED 12 2023-07-17 19:05:05.694660
REQUEST 18 2023-07-17 19:05:05.698155
RELEASED 12 2023-07-17 19:05:05.714585
GRANTED 11 2023-07-17 19:05:05.715092

REQUEST 22 2023-07-17 19:05:05.715382
REQUEST 23 2023-07-17 19:05:05.725493
RELEASED 11 2023-07-17 19:05:05.727085
REQUEST 24 2023-07-17 19:05:05.727687
GRANTED 17 2023-07-17 19:05:05.728194
RELEASED 17 2023-07-17 19:05:05.750104
GRANTED 19 2023-07-17 19:05:05.751113
REQUEST 17 2023-07-17 19:05:05.755060
RELEASED 19 2023-07-17 19:05:05.780184
GRANTED 20 2023-07-17 19:05:05.781183
REQUEST 19 2023-07-17 19:05:05.781691
RELEASED 20 2023-07-17 19:05:05.807371
GRANTED 13 2023-07-17 19:05:05.808663
REQUEST 20 2023-07-17 19:05:05.811383
RELEASED 13 2023-07-17 19:05:05.827006
GRANTED 14 2023-07-17 19:05:05.827571
REQUEST 25 2023-07-17 19:05:05.828079
RELEASED 14 2023-07-17 19:05:05.859057
GRANTED 15 2023-07-17 19:05:05.861024
RELEASED 15 2023-07-17 19:05:05.877775
GRANTED 21 2023-07-17 19:05:05.882055
RELEASED 21 2023-07-17 19:05:05.905553
GRANTED 16 2023-07-17 19:05:05.905553
REQUEST 21 2023-07-17 19:05:05.907553
RELEASED 16 2023-07-17 19:05:05.928312
GRANTED 18 2023-07-17 19:05:05.928312
REQUEST 26 2023-07-17 19:05:05.930313
RELEASED 18 2023-07-17 19:05:05.939839
GRANTED 22 2023-07-17 19:05:05.941400
REQUEST 18 2023-07-17 19:05:05.947513
RELEASED 22 2023-07-17 19:05:05.954063
GRANTED 23 2023-07-17 19:05:05.955071
REQUEST 27 2023-07-17 19:05:05.961765
REQUEST 22 2023-07-17 19:05:05.962776
REQUEST 28 2023-07-17 19:05:05.963786
RELEASED 23 2023-07-17 19:05:05.968784
GRANTED 24 2023-07-17 19:05:05.969784
REQUEST 23 2023-07-17 19:05:05.975661
RELEASED 24 2023-07-17 19:05:05.986181
GRANTED 17 2023-07-17 19:05:05.988343
REQUEST 24 2023-07-17 19:05:05.989354
RELEASED 17 2023-07-17 19:05:05.998957
GRANTED 19 2023-07-17 19:05:05.998957
RELEASED 19 2023-07-17 19:05:05.017544
REQUEST 19 2023-07-17 19:05:05.019486
GRANTED 20 2023-07-17 19:05:05.017544
REQUEST 29 2023-07-17 19:05:05.037727
RELEASED 20 2023-07-17 19:05:05.045320
GRANTED 25 2023-07-17 19:05:05.046755
REQUEST 20 2023-07-17 19:05:05.047421
RELEASED 25 2023-07-17 19:05:05.061336
GRANTED 21 2023-07-17 19:05:05.062497
REQUEST 25 2023-07-17 19:05:05.063779
RELEASED 21 2023-07-17 19:05:05.072769
GRANTED 26 2023-07-17 19:05:05.072769

REQUEST 21 2023-07-17 19:05:05.074764
RELEASED 26 2023-07-17 19:05:05.085610
GRANTED 18 2023-07-17 19:05:05.086591
REQUEST 26 2023-07-17 19:05:05.100231
RELEASED 18 2023-07-17 19:05:05.101233
GRANTED 27 2023-07-17 19:05:05.105934
REQUEST 30 2023-07-17 19:05:05.121104
REQUEST 31 2023-07-17 19:05:05.133644
RELEASED 27 2023-07-17 19:05:05.145858
GRANTED 22 2023-07-17 19:05:05.146858
REQUEST 27 2023-07-17 19:05:05.148860
RELEASED 22 2023-07-17 19:05:05.160392
GRANTED 28 2023-07-17 19:05:05.160392
REQUEST 22 2023-07-17 19:05:05.165915
RELEASED 28 2023-07-17 19:05:05.183534
GRANTED 23 2023-07-17 19:05:05.184544
REQUEST 28 2023-07-17 19:05:05.185949
RELEASED 23 2023-07-17 19:05:05.199734
GRANTED 24 2023-07-17 19:05:05.201244
REQUEST 23 2023-07-17 19:05:05.207505
REQUEST 32 2023-07-17 19:05:05.208629
RELEASED 24 2023-07-17 19:05:05.219156
GRANTED 19 2023-07-17 19:05:05.219683
REQUEST 24 2023-07-17 19:05:05.221206
RELEASED 19 2023-07-17 19:05:05.240047
GRANTED 29 2023-07-17 19:05:05.243560
REQUEST 33 2023-07-17 19:05:05.262146
RELEASED 29 2023-07-17 19:05:05.263148
GRANTED 20 2023-07-17 19:05:05.267157
REQUEST 29 2023-07-17 19:05:05.279517
RELEASED 20 2023-07-17 19:05:05.291424
GRANTED 25 2023-07-17 19:05:05.291931
RELEASED 25 2023-07-17 19:05:05.319818
GRANTED 21 2023-07-17 19:05:05.320409
REQUEST 25 2023-07-17 19:05:05.323246
RELEASED 21 2023-07-17 19:05:05.344126
GRANTED 26 2023-07-17 19:05:05.344126
REQUEST 34 2023-07-17 19:05:05.348722
RELEASED 26 2023-07-17 19:05:05.361117
GRANTED 30 2023-07-17 19:05:05.365139
REQUEST 26 2023-07-17 19:05:05.368491
RELEASED 30 2023-07-17 19:05:05.381902
GRANTED 31 2023-07-17 19:05:05.382909
REQUEST 30 2023-07-17 19:05:05.390420
REQUEST 35 2023-07-17 19:05:05.405120
REQUEST 36 2023-07-17 19:05:05.405628
RELEASED 31 2023-07-17 19:05:05.407182
GRANTED 27 2023-07-17 19:05:05.407182
REQUEST 31 2023-07-17 19:05:05.408786
RELEASED 27 2023-07-17 19:05:05.423504
GRANTED 22 2023-07-17 19:05:05.424494
REQUEST 27 2023-07-17 19:05:05.427525
RELEASED 22 2023-07-17 19:05:05.437973
GRANTED 28 2023-07-17 19:05:05.437973
RELEASED 28 2023-07-17 19:05:05.468972

GRANTED 23 2023-07-17 19:05:05.469970
REQUEST 28 2023-07-17 19:05:05.477622
REQUEST 37 2023-07-17 19:05:05.487154
RELEASED 23 2023-07-17 19:05:05.491208
GRANTED 32 2023-07-17 19:05:05.491715
RELEASED 32 2023-07-17 19:05:05.515636
GRANTED 24 2023-07-17 19:05:05.516638
REQUEST 32 2023-07-17 19:05:05.523068
RELEASED 24 2023-07-17 19:05:05.544820
GRANTED 33 2023-07-17 19:05:05.545820
REQUEST 38 2023-07-17 19:05:05.545820
RELEASED 33 2023-07-17 19:05:05.557102
GRANTED 29 2023-07-17 19:05:05.558102
REQUEST 33 2023-07-17 19:05:05.562673
RELEASED 29 2023-07-17 19:05:05.574205
GRANTED 25 2023-07-17 19:05:05.575319
REQUEST 29 2023-07-17 19:05:05.577093
RELEASED 25 2023-07-17 19:05:05.590395
GRANTED 34 2023-07-17 19:05:05.591391
REQUEST 39 2023-07-17 19:05:05.593282
RELEASED 34 2023-07-17 19:05:05.608616
GRANTED 26 2023-07-17 19:05:05.609126
REQUEST 34 2023-07-17 19:05:05.610430
RELEASED 26 2023-07-17 19:05:05.625086
GRANTED 30 2023-07-17 19:05:05.626085
RELEASED 30 2023-07-17 19:05:05.643203
GRANTED 35 2023-07-17 19:05:05.643203
REQUEST 30 2023-07-17 19:05:05.645211
RELEASED 35 2023-07-17 19:05:05.659917
GRANTED 36 2023-07-17 19:05:05.659917
REQUEST 35 2023-07-17 19:05:05.661426
REQUEST 40 2023-07-17 19:05:05.673407
RELEASED 36 2023-07-17 19:05:05.679666
GRANTED 31 2023-07-17 19:05:05.679666
REQUEST 36 2023-07-17 19:05:05.684483
RELEASED 31 2023-07-17 19:05:05.699284
GRANTED 27 2023-07-17 19:05:05.700173
REQUEST 31 2023-07-17 19:05:05.701690
RELEASED 27 2023-07-17 19:05:05.717154
GRANTED 28 2023-07-17 19:05:05.718165
RELEASED 28 2023-07-17 19:05:05.728821
GRANTED 37 2023-07-17 19:05:05.729092
RELEASED 37 2023-07-17 19:05:05.744363
GRANTED 32 2023-07-17 19:05:05.744363
REQUEST 37 2023-07-17 19:05:05.748768
RELEASED 32 2023-07-17 19:05:05.764565
GRANTED 38 2023-07-17 19:05:05.765073
REQUEST 32 2023-07-17 19:05:05.769401
RELEASED 38 2023-07-17 19:05:05.777130
GRANTED 33 2023-07-17 19:05:05.777637
REQUEST 38 2023-07-17 19:05:05.778846
REQUEST 41 2023-07-17 19:05:05.794036
RELEASED 33 2023-07-17 19:05:05.803151
GRANTED 29 2023-07-17 19:05:05.803151
REQUEST 33 2023-07-17 19:05:05.804707

RELEASED 29 2023-07-17 19:05:05.819589
GRANTED 39 2023-07-17 19:05:05.819589
RELEASED 39 2023-07-17 19:05:05.833164
GRANTED 34 2023-07-17 19:05:05.834652
REQUEST 39 2023-07-17 19:05:05.836227
RELEASED 34 2023-07-17 19:05:05.848920
GRANTED 30 2023-07-17 19:05:05.849428
REQUEST 34 2023-07-17 19:05:05.850537
RELEASED 30 2023-07-17 19:05:05.861634
GRANTED 35 2023-07-17 19:05:05.862614
REQUEST 42 2023-07-17 19:05:05.863778
RELEASED 35 2023-07-17 19:05:05.873862
GRANTED 40 2023-07-17 19:05:05.873862
REQUEST 35 2023-07-17 19:05:05.876695
RELEASED 40 2023-07-17 19:05:05.904147
GRANTED 36 2023-07-17 19:05:05.905295
REQUEST 40 2023-07-17 19:05:05.909490
RELEASED 36 2023-07-17 19:05:05.918552
GRANTED 31 2023-07-17 19:05:05.919327
REQUEST 36 2023-07-17 19:05:05.920656
RELEASED 31 2023-07-17 19:05:05.940005
GRANTED 37 2023-07-17 19:05:05.940005
REQUEST 43 2023-07-17 19:05:05.941527
REQUEST 44 2023-07-17 19:05:05.945090
RELEASED 37 2023-07-17 19:05:05.964517
GRANTED 32 2023-07-17 19:05:05.964517
REQUEST 37 2023-07-17 19:05:05.967124
RELEASED 32 2023-07-17 19:05:05.981024
GRANTED 38 2023-07-17 19:05:05.981531
RELEASED 38 2023-07-17 19:05:05.008002
GRANTED 41 2023-07-17 19:05:05.008860
REQUEST 38 2023-07-17 19:05:05.009519
RELEASED 41 2023-07-17 19:05:05.029962
GRANTED 33 2023-07-17 19:05:05.031472
REQUEST 41 2023-07-17 19:05:05.034943
REQUEST 45 2023-07-17 19:05:05.040396
REQUEST 46 2023-07-17 19:05:05.041404
RELEASED 33 2023-07-17 19:05:05.050407
GRANTED 39 2023-07-17 19:05:05.050407
RELEASED 39 2023-07-17 19:05:05.079928
GRANTED 34 2023-07-17 19:05:05.079928
REQUEST 39 2023-07-17 19:05:05.084204
REQUEST 47 2023-07-17 19:05:05.097487
RELEASED 34 2023-07-17 19:05:05.153529
GRANTED 42 2023-07-17 19:05:05.154973
RELEASED 42 2023-07-17 19:05:05.171498
GRANTED 35 2023-07-17 19:05:05.173515
REQUEST 42 2023-07-17 19:05:05.175466
RELEASED 35 2023-07-17 19:05:05.196272
GRANTED 40 2023-07-17 19:05:05.197913
RELEASED 40 2023-07-17 19:05:05.221836
GRANTED 36 2023-07-17 19:05:05.223656
REQUEST 40 2023-07-17 19:05:05.224882
RELEASED 36 2023-07-17 19:05:05.239992
GRANTED 43 2023-07-17 19:05:05.241002

RELEASED 43 2023-07-17 19:05:05.282664
GRANTED 44 2023-07-17 19:05:05.282664
REQUEST 43 2023-07-17 19:05:05.284323
RELEASED 44 2023-07-17 19:05:05.306442
GRANTED 37 2023-07-17 19:05:05.307441
REQUEST 44 2023-07-17 19:05:05.308282
RELEASED 37 2023-07-17 19:05:05.323607
GRANTED 38 2023-07-17 19:05:05.324607
RELEASED 38 2023-07-17 19:05:05.344295
GRANTED 41 2023-07-17 19:05:05.345430
REQUEST 48 2023-07-17 19:05:05.361099
RELEASED 41 2023-07-17 19:05:05.394910
GRANTED 45 2023-07-17 19:05:05.394910
REQUEST 41 2023-07-17 19:05:05.396959
RELEASED 45 2023-07-17 19:05:05.422667
GRANTED 46 2023-07-17 19:05:05.423677
REQUEST 45 2023-07-17 19:05:05.426085
REQUEST 49 2023-07-17 19:05:05.426379
RELEASED 46 2023-07-17 19:05:05.444941
GRANTED 39 2023-07-17 19:05:05.445521
REQUEST 46 2023-07-17 19:05:05.450552
RELEASED 39 2023-07-17 19:05:05.473660
GRANTED 47 2023-07-17 19:05:05.474664
RELEASED 47 2023-07-17 19:05:05.499665
GRANTED 42 2023-07-17 19:05:05.509118
REQUEST 47 2023-07-17 19:05:05.510830
RELEASED 42 2023-07-17 19:05:05.527441
GRANTED 40 2023-07-17 19:05:05.548766
REQUEST 53 2023-07-17 19:05:05.548958
REQUEST 42 2023-07-17 19:05:05.551089
REQUEST 50 2023-07-17 19:05:05.557624
RELEASED 40 2023-07-17 19:05:05.582599
GRANTED 43 2023-07-17 19:05:05.588940
RELEASED 43 2023-07-17 19:05:05.647668
GRANTED 44 2023-07-17 19:05:05.648705
REQUEST 43 2023-07-17 19:05:05.649714
REQUEST 52 2023-07-17 19:05:05.668223
REQUEST 51 2023-07-17 19:05:05.691824
RELEASED 44 2023-07-17 19:05:05.695852
GRANTED 48 2023-07-17 19:05:05.697337
REQUEST 44 2023-07-17 19:05:05.700024
RELEASED 48 2023-07-17 19:05:05.719909
GRANTED 41 2023-07-17 19:05:05.719909
REQUEST 48 2023-07-17 19:05:05.724617
RELEASED 41 2023-07-17 19:05:05.736691
GRANTED 45 2023-07-17 19:05:05.737811
RELEASED 45 2023-07-17 19:05:05.747868
GRANTED 49 2023-07-17 19:05:05.747868
REQUEST 45 2023-07-17 19:05:05.749467
RELEASED 49 2023-07-17 19:05:05.771841
GRANTED 46 2023-07-17 19:05:05.773599
REQUEST 49 2023-07-17 19:05:05.775599
RELEASED 46 2023-07-17 19:05:05.785856
GRANTED 47 2023-07-17 19:05:05.786366
REQUEST 46 2023-07-17 19:05:05.789376

RELEASED 47 2023-07-17 19:05:05.798729
GRANTED 53 2023-07-17 19:05:05.801967
REQUEST 47 2023-07-17 19:05:05.809301
RELEASED 53 2023-07-17 19:05:05.820224
GRANTED 42 2023-07-17 19:05:05.820224
REQUEST 53 2023-07-17 19:05:05.827192
RELEASED 42 2023-07-17 19:05:05.834004
GRANTED 50 2023-07-17 19:05:05.837081
RELEASED 50 2023-07-17 19:05:05.848402
GRANTED 43 2023-07-17 19:05:05.848912
REQUEST 50 2023-07-17 19:05:05.857761
RELEASED 43 2023-07-17 19:05:05.863969
GRANTED 52 2023-07-17 19:05:05.865080
RELEASED 52 2023-07-17 19:05:05.878336
GRANTED 51 2023-07-17 19:05:05.879726
REQUEST 52 2023-07-17 19:05:05.887768
RELEASED 51 2023-07-17 19:05:05.891540
REQUEST 51 2023-07-17 19:05:05.897385
GRANTED 44 2023-07-17 19:05:05.892547
RELEASED 44 2023-07-17 19:05:05.917481
GRANTED 48 2023-07-17 19:05:05.918482
RELEASED 48 2023-07-17 19:05:05.939817
GRANTED 45 2023-07-17 19:05:05.944660
REQUEST 48 2023-07-17 19:05:05.953893
RELEASED 45 2023-07-17 19:05:05.957262
GRANTED 49 2023-07-17 19:05:05.958349
RELEASED 49 2023-07-17 19:05:05.974631
GRANTED 46 2023-07-17 19:05:05.975695
REQUEST 49 2023-07-17 19:05:05.979270
RELEASED 46 2023-07-17 19:05:05.002701
GRANTED 47 2023-07-17 19:05:05.006342
RELEASED 47 2023-07-17 19:05:05.024065
GRANTED 53 2023-07-17 19:05:05.024553
REQUEST 55 2023-07-17 19:05:05.031666
REQUEST 56 2023-07-17 19:05:05.063287
RELEASED 53 2023-07-17 19:05:05.077779
GRANTED 50 2023-07-17 19:05:05.078984
REQUEST 53 2023-07-17 19:05:05.081207
RELEASED 50 2023-07-17 19:05:05.089935
GRANTED 52 2023-07-17 19:05:05.089935
REQUEST 50 2023-07-17 19:05:05.094129
RELEASED 52 2023-07-17 19:05:05.108657
GRANTED 51 2023-07-17 19:05:05.109928
REQUEST 52 2023-07-17 19:05:05.110435
RELEASED 51 2023-07-17 19:05:05.126810
GRANTED 48 2023-07-17 19:05:05.127450
REQUEST 57 2023-07-17 19:05:05.127450
REQUEST 51 2023-07-17 19:05:05.128551
RELEASED 48 2023-07-17 19:05:05.138758
GRANTED 49 2023-07-17 19:05:05.139217
RELEASED 49 2023-07-17 19:05:05.156968
GRANTED 55 2023-07-17 19:05:05.157977
RELEASED 55 2023-07-17 19:05:05.176114
GRANTED 56 2023-07-17 19:05:05.176830
REQUEST 55 2023-07-17 19:05:05.180149

RELEASED 56 2023-07-17 19:05:05.191168
GRANTED 53 2023-07-17 19:05:05.192178
REQUEST 56 2023-07-17 19:05:05.194108
RELEASED 53 2023-07-17 19:05:05.206892
GRANTED 50 2023-07-17 19:05:05.207399
RELEASED 50 2023-07-17 19:05:05.228989
GRANTED 52 2023-07-17 19:05:05.230064
RELEASED 52 2023-07-17 19:05:05.246398
GRANTED 57 2023-07-17 19:05:05.247813
REQUEST 59 2023-07-17 19:05:05.249092
REQUEST 54 2023-07-17 19:05:05.249961
REQUEST 60 2023-07-17 19:05:05.254233
RELEASED 57 2023-07-17 19:05:05.284039
GRANTED 51 2023-07-17 19:05:05.285039
REQUEST 57 2023-07-17 19:05:05.287015
RELEASED 51 2023-07-17 19:05:05.300075
GRANTED 55 2023-07-17 19:05:05.303534
RELEASED 55 2023-07-17 19:05:05.317941
GRANTED 56 2023-07-17 19:05:05.319365
REQUEST 55 2023-07-17 19:05:05.321060
RELEASED 56 2023-07-17 19:05:05.329908
GRANTED 59 2023-07-17 19:05:05.331417
REQUEST 56 2023-07-17 19:05:05.332429
RELEASED 59 2023-07-17 19:05:05.346973
GRANTED 54 2023-07-17 19:05:05.346973
REQUEST 59 2023-07-17 19:05:05.348547
RELEASED 54 2023-07-17 19:05:05.361369
GRANTED 60 2023-07-17 19:05:05.361369
REQUEST 54 2023-07-17 19:05:05.363380
RELEASED 60 2023-07-17 19:05:05.375048
GRANTED 57 2023-07-17 19:05:05.375933
REQUEST 60 2023-07-17 19:05:05.377707
RELEASED 57 2023-07-17 19:05:05.389240
GRANTED 55 2023-07-17 19:05:05.390242
REQUEST 57 2023-07-17 19:05:05.390242
RELEASED 55 2023-07-17 19:05:05.399489
GRANTED 56 2023-07-17 19:05:05.402011
RELEASED 56 2023-07-17 19:05:05.432384
GRANTED 59 2023-07-17 19:05:05.435146
RELEASED 59 2023-07-17 19:05:05.459895
GRANTED 54 2023-07-17 19:05:05.460411
REQUEST 59 2023-07-17 19:05:05.462938
RELEASED 54 2023-07-17 19:05:05.476540
GRANTED 60 2023-07-17 19:05:05.477542
REQUEST 54 2023-07-17 19:05:05.478537
RELEASED 60 2023-07-17 19:05:05.503886
GRANTED 57 2023-07-17 19:05:05.503886
REQUEST 60 2023-07-17 19:05:05.505886
REQUEST 58 2023-07-17 19:05:05.516964
RELEASED 57 2023-07-17 19:05:05.518577
GRANTED 59 2023-07-17 19:05:05.518577
RELEASED 59 2023-07-17 19:05:05.547066
GRANTED 54 2023-07-17 19:05:05.548068
RELEASED 54 2023-07-17 19:05:05.566585
GRANTED 60 2023-07-17 19:05:05.566585

RELEASED 60 2023-07-17 19:05:05.579828
GRANTED 58 2023-07-17 19:05:05.581569
RELEASED 58 2023-07-17 19:05:05.606604
REQUEST 58 2023-07-17 19:05:05.609113
GRANTED 58 2023-07-17 19:05:05.610075
RELEASED 58 2023-07-17 19:05:05.628016
REQUEST 58 2023-07-17 19:05:05.630230
GRANTED 58 2023-07-17 19:05:05.631237
RELEASED 58 2023-07-17 19:05:05.644358
REQUEST 62 2023-07-17 19:05:05.736778
GRANTED 62 2023-07-17 19:05:05.737289
RELEASED 62 2023-07-17 19:05:05.744523
REQUEST 62 2023-07-17 19:05:05.745467
GRANTED 62 2023-07-17 19:05:05.745991
RELEASED 62 2023-07-17 19:05:05.761351
REQUEST 63 2023-07-17 19:05:05.763871
GRANTED 63 2023-07-17 19:05:05.764378
REQUEST 62 2023-07-17 19:05:05.783250
RELEASED 63 2023-07-17 19:05:05.798337
GRANTED 62 2023-07-17 19:05:05.798337
REQUEST 63 2023-07-17 19:05:05.800057
RELEASED 62 2023-07-17 19:05:05.815552
GRANTED 63 2023-07-17 19:05:05.816552
RELEASED 63 2023-07-17 19:05:05.859036
REQUEST 61 2023-07-17 19:05:05.859544
GRANTED 61 2023-07-17 19:05:05.859844
REQUEST 63 2023-07-17 19:05:05.860350
RELEASED 61 2023-07-17 19:05:05.871037
GRANTED 63 2023-07-17 19:05:05.871037
REQUEST 61 2023-07-17 19:05:05.874408
RELEASED 63 2023-07-17 19:05:05.890184
GRANTED 61 2023-07-17 19:05:05.890184
RELEASED 61 2023-07-17 19:05:05.931839
REQUEST 61 2023-07-17 19:05:05.935110
GRANTED 61 2023-07-17 19:05:05.935932
RELEASED 61 2023-07-17 19:05:05.955695
REQUEST 67 2023-07-17 19:05:05.009976
GRANTED 67 2023-07-17 19:05:05.010485
REQUEST 66 2023-07-17 19:05:05.014019
RELEASED 67 2023-07-17 19:05:05.027963
GRANTED 66 2023-07-17 19:05:05.027963
REQUEST 67 2023-07-17 19:05:05.031463
RELEASED 66 2023-07-17 19:05:05.041275
GRANTED 67 2023-07-17 19:05:05.044201
REQUEST 66 2023-07-17 19:05:05.045842
RELEASED 67 2023-07-17 19:05:05.057306
GRANTED 66 2023-07-17 19:05:05.058314
REQUEST 67 2023-07-17 19:05:05.059306
RELEASED 66 2023-07-17 19:05:05.075363
GRANTED 67 2023-07-17 19:05:05.075363
REQUEST 65 2023-07-17 19:05:05.075363
REQUEST 66 2023-07-17 19:05:05.078786
RELEASED 67 2023-07-17 19:05:05.088372
GRANTED 65 2023-07-17 19:05:05.089487
RELEASED 65 2023-07-17 19:05:05.099585

GRANTED 66 2023-07-17 19:05:05.099585
REQUEST 65 2023-07-17 19:05:05.106499
RELEASED 66 2023-07-17 19:05:05.128958
GRANTED 65 2023-07-17 19:05:05.130430
RELEASED 65 2023-07-17 19:05:05.148516
REQUEST 65 2023-07-17 19:05:05.153245
GRANTED 65 2023-07-17 19:05:05.153786
REQUEST 64 2023-07-17 19:05:05.178944
RELEASED 65 2023-07-17 19:05:05.182350
GRANTED 64 2023-07-17 19:05:05.182350
RELEASED 64 2023-07-17 19:05:05.241804
REQUEST 69 2023-07-17 19:05:05.242815
GRANTED 69 2023-07-17 19:05:05.242815
REQUEST 64 2023-07-17 19:05:05.244361
RELEASED 69 2023-07-17 19:05:05.259676
GRANTED 64 2023-07-17 19:05:05.261714
REQUEST 69 2023-07-17 19:05:05.265039
RELEASED 64 2023-07-17 19:05:05.279886
GRANTED 69 2023-07-17 19:05:05.280421
REQUEST 64 2023-07-17 19:05:05.284958
RELEASED 69 2023-07-17 19:05:05.291091
GRANTED 64 2023-07-17 19:05:05.291091
REQUEST 69 2023-07-17 19:05:05.294160
RELEASED 64 2023-07-17 19:05:05.304228
GRANTED 69 2023-07-17 19:05:05.304741
RELEASED 69 2023-07-17 19:05:05.321367
REQUEST 71 2023-07-17 19:05:05.481342
GRANTED 71 2023-07-17 19:05:05.482499
REQUEST 68 2023-07-17 19:05:05.483007
RELEASED 71 2023-07-17 19:05:05.496949
GRANTED 68 2023-07-17 19:05:05.496949
REQUEST 71 2023-07-17 19:05:05.498900
RELEASED 68 2023-07-17 19:05:05.513873
GRANTED 71 2023-07-17 19:05:05.514883
REQUEST 68 2023-07-17 19:05:05.518685
RELEASED 71 2023-07-17 19:05:05.529860
GRANTED 68 2023-07-17 19:05:05.531369
REQUEST 71 2023-07-17 19:05:05.533906
REQUEST 70 2023-07-17 19:05:05.539978
RELEASED 68 2023-07-17 19:05:05.547331
GRANTED 71 2023-07-17 19:05:05.547331
REQUEST 68 2023-07-17 19:05:05.549066
RELEASED 71 2023-07-17 19:05:05.565355
GRANTED 70 2023-07-17 19:05:05.566355
RELEASED 70 2023-07-17 19:05:05.588282
GRANTED 68 2023-07-17 19:05:05.590278
REQUEST 70 2023-07-17 19:05:05.591280
RELEASED 68 2023-07-17 19:05:05.613455
GRANTED 70 2023-07-17 19:05:05.614460
RELEASED 70 2023-07-17 19:05:05.634020
REQUEST 70 2023-07-17 19:05:05.639931
GRANTED 70 2023-07-17 19:05:05.639931
RELEASED 70 2023-07-17 19:05:05.657156
REQUEST 72 2023-07-17 19:05:05.779249
GRANTED 72 2023-07-17 19:05:05.779831

RELEASED 72 2023-07-17 19:05:05.794189
REQUEST 72 2023-07-17 19:05:05.795198
GRANTED 72 2023-07-17 19:05:05.795198
RELEASED 72 2023-07-17 19:05:05.811365
REQUEST 72 2023-07-17 19:05:05.816061
GRANTED 72 2023-07-17 19:05:05.817060
RELEASED 72 2023-07-17 19:05:05.845074
REQUEST 75 2023-07-17 19:05:05.936573
GRANTED 75 2023-07-17 19:05:05.937569
REQUEST 73 2023-07-17 19:05:05.938120
RELEASED 75 2023-07-17 19:05:05.954053
GRANTED 73 2023-07-17 19:05:05.954053
REQUEST 75 2023-07-17 19:05:05.956115
REQUEST 74 2023-07-17 19:05:05.969826
RELEASED 73 2023-07-17 19:05:05.974577
GRANTED 75 2023-07-17 19:05:05.974941
REQUEST 73 2023-07-17 19:05:05.976698
RELEASED 75 2023-07-17 19:05:05.009305
REQUEST 75 2023-07-17 19:05:05.013446
GRANTED 74 2023-07-17 19:05:05.009305
RELEASED 74 2023-07-17 19:05:05.049665
GRANTED 73 2023-07-17 19:05:05.050447
REQUEST 74 2023-07-17 19:05:05.066507
RELEASED 73 2023-07-17 19:05:05.073949
GRANTED 75 2023-07-17 19:05:05.074637
REQUEST 73 2023-07-17 19:05:05.075797
RELEASED 75 2023-07-17 19:05:05.090336
GRANTED 74 2023-07-17 19:05:05.091842
RELEASED 74 2023-07-17 19:05:05.153473
GRANTED 73 2023-07-17 19:05:05.155486
RELEASED 73 2023-07-17 19:05:05.166853
REQUEST 76 2023-07-17 19:05:05.167863
GRANTED 76 2023-07-17 19:05:05.167863
REQUEST 74 2023-07-17 19:05:05.169360
RELEASED 76 2023-07-17 19:05:05.183824
GRANTED 74 2023-07-17 19:05:05.184825
REQUEST 76 2023-07-17 19:05:05.186770
RELEASED 74 2023-07-17 19:05:05.196202
GRANTED 76 2023-07-17 19:05:05.197601
RELEASED 76 2023-07-17 19:05:05.221514
REQUEST 76 2023-07-17 19:05:05.222524
GRANTED 76 2023-07-17 19:05:05.222524
REQUEST 77 2023-07-17 19:05:05.223540
REQUEST 78 2023-07-17 19:05:05.224292
RELEASED 76 2023-07-17 19:05:05.246983
GRANTED 77 2023-07-17 19:05:05.248167
REQUEST 79 2023-07-17 19:05:05.251896
RELEASED 77 2023-07-17 19:05:05.266748
GRANTED 78 2023-07-17 19:05:05.269839
REQUEST 77 2023-07-17 19:05:05.273362
RELEASED 78 2023-07-17 19:05:05.285777
GRANTED 79 2023-07-17 19:05:05.286397
REQUEST 80 2023-07-17 19:05:05.286907
REQUEST 78 2023-07-17 19:05:05.287730
RELEASED 79 2023-07-17 19:05:05.298091

GRANTED 77 2023-07-17 19:05:05.299089
REQUEST 79 2023-07-17 19:05:05.306910
RELEASED 77 2023-07-17 19:05:05.315766
GRANTED 80 2023-07-17 19:05:05.319328
REQUEST 77 2023-07-17 19:05:05.320166
RELEASED 80 2023-07-17 19:05:05.329700
GRANTED 78 2023-07-17 19:05:05.329805
REQUEST 80 2023-07-17 19:05:05.331321
RELEASED 78 2023-07-17 19:05:05.347241
GRANTED 79 2023-07-17 19:05:05.348241
REQUEST 78 2023-07-17 19:05:05.351080
RELEASED 79 2023-07-17 19:05:05.371242
GRANTED 77 2023-07-17 19:05:05.371750
REQUEST 79 2023-07-17 19:05:05.372278
RELEASED 77 2023-07-17 19:05:05.383675
GRANTED 80 2023-07-17 19:05:05.384510
RELEASED 80 2023-07-17 19:05:05.430352
GRANTED 78 2023-07-17 19:05:05.431353
REQUEST 80 2023-07-17 19:05:05.433222
RELEASED 78 2023-07-17 19:05:05.461907
GRANTED 79 2023-07-17 19:05:05.462799
RELEASED 79 2023-07-17 19:05:05.481000
GRANTED 80 2023-07-17 19:05:05.481000
RELEASED 80 2023-07-17 19:05:05.519972
REQUEST 81 2023-07-17 19:05:05.563823
GRANTED 81 2023-07-17 19:05:05.563823
REQUEST 83 2023-07-17 19:05:05.564823
RELEASED 81 2023-07-17 19:05:05.570312
GRANTED 83 2023-07-17 19:05:05.570821
REQUEST 81 2023-07-17 19:05:05.571846
RELEASED 83 2023-07-17 19:05:05.586315
GRANTED 81 2023-07-17 19:05:05.586315
REQUEST 83 2023-07-17 19:05:05.590187
RELEASED 81 2023-07-17 19:05:05.616231
GRANTED 83 2023-07-17 19:05:05.617231
REQUEST 81 2023-07-17 19:05:05.618136
REQUEST 82 2023-07-17 19:05:05.661048
RELEASED 83 2023-07-17 19:05:05.685298
GRANTED 81 2023-07-17 19:05:05.686296
REQUEST 83 2023-07-17 19:05:05.687421
RELEASED 81 2023-07-17 19:05:05.697464
GRANTED 82 2023-07-17 19:05:05.698466
RELEASED 82 2023-07-17 19:05:05.736532
GRANTED 83 2023-07-17 19:05:05.737534
REQUEST 82 2023-07-17 19:05:05.744291
RELEASED 83 2023-07-17 19:05:05.806689
GRANTED 82 2023-07-17 19:05:05.806689
RELEASED 82 2023-07-17 19:05:05.887433
REQUEST 82 2023-07-17 19:05:05.906734
GRANTED 82 2023-07-17 19:05:05.907242
REQUEST 85 2023-07-17 19:05:05.908250
RELEASED 82 2023-07-17 19:05:05.937524
GRANTED 85 2023-07-17 19:05:05.937524
REQUEST 86 2023-07-17 19:05:05.938523
REQUEST 88 2023-07-17 19:05:05.938523

RELEASED 85 2023-07-17 19:05:05.027626
GRANTED 86 2023-07-17 19:05:05.028626
REQUEST 85 2023-07-17 19:05:05.029626
REQUEST 84 2023-07-17 19:05:05.047028
REQUEST 87 2023-07-17 19:05:05.048035
RELEASED 86 2023-07-17 19:05:05.122225
GRANTED 88 2023-07-17 19:05:05.122225
REQUEST 86 2023-07-17 19:05:05.124044
RELEASED 88 2023-07-17 19:05:05.165481
GRANTED 85 2023-07-17 19:05:05.166482
REQUEST 88 2023-07-17 19:05:05.169920
RELEASED 85 2023-07-17 19:05:05.191021
GRANTED 84 2023-07-17 19:05:05.191528
REQUEST 85 2023-07-17 19:05:05.196259
RELEASED 84 2023-07-17 19:05:05.211002
GRANTED 87 2023-07-17 19:05:05.214041
REQUEST 84 2023-07-17 19:05:05.215027
RELEASED 87 2023-07-17 19:05:05.245497
GRANTED 86 2023-07-17 19:05:05.246648
REQUEST 91 2023-07-17 19:05:05.249292
REQUEST 89 2023-07-17 19:05:05.256495
REQUEST 87 2023-07-17 19:05:05.257003
RELEASED 86 2023-07-17 19:05:05.265579
GRANTED 88 2023-07-17 19:05:05.281543
REQUEST 86 2023-07-17 19:05:05.287478
RELEASED 88 2023-07-17 19:05:05.301333
GRANTED 85 2023-07-17 19:05:05.303829
REQUEST 88 2023-07-17 19:05:05.314716
RELEASED 85 2023-07-17 19:05:05.325905
GRANTED 84 2023-07-17 19:05:05.325905
RELEASED 84 2023-07-17 19:05:05.347830
GRANTED 91 2023-07-17 19:05:05.347830
REQUEST 84 2023-07-17 19:05:05.362121
RELEASED 91 2023-07-17 19:05:05.386679
GRANTED 89 2023-07-17 19:05:05.386679
REQUEST 91 2023-07-17 19:05:05.389680
RELEASED 89 2023-07-17 19:05:05.406247
GRANTED 87 2023-07-17 19:05:05.407505
REQUEST 89 2023-07-17 19:05:05.408970
RELEASED 87 2023-07-17 19:05:05.422548
GRANTED 86 2023-07-17 19:05:05.423497
REQUEST 87 2023-07-17 19:05:05.425258
RELEASED 86 2023-07-17 19:05:05.436368
GRANTED 88 2023-07-17 19:05:05.436368
RELEASED 88 2023-07-17 19:05:05.466964
GRANTED 84 2023-07-17 19:05:05.467966
REQUEST 90 2023-07-17 19:05:05.502055
RELEASED 84 2023-07-17 19:05:05.510106
GRANTED 91 2023-07-17 19:05:05.510660
RELEASED 91 2023-07-17 19:05:05.529576
GRANTED 89 2023-07-17 19:05:05.529576
REQUEST 91 2023-07-17 19:05:05.538489
RELEASED 89 2023-07-17 19:05:05.544284
GRANTED 87 2023-07-17 19:05:05.545286
REQUEST 89 2023-07-17 19:05:05.547285

RELEASED 87 2023-07-17 19:05:05.565321
GRANTED 90 2023-07-17 19:05:05.566057
RELEASED 90 2023-07-17 19:05:05.579868
GRANTED 91 2023-07-17 19:05:05.581376
REQUEST 90 2023-07-17 19:05:05.584396
RELEASED 91 2023-07-17 19:05:05.606907
GRANTED 89 2023-07-17 19:05:05.608020
RELEASED 89 2023-07-17 19:05:05.633346
GRANTED 90 2023-07-17 19:05:05.636993
RELEASED 90 2023-07-17 19:05:05.656867
REQUEST 90 2023-07-17 19:05:05.657867
GRANTED 90 2023-07-17 19:05:05.660155
RELEASED 90 2023-07-17 19:05:05.671238
REQUEST 92 2023-07-17 19:05:05.727586
GRANTED 92 2023-07-17 19:05:05.728585
RELEASED 92 2023-07-17 19:05:05.732091
REQUEST 92 2023-07-17 19:05:05.734100
GRANTED 92 2023-07-17 19:05:05.735607
RELEASED 92 2023-07-17 19:05:05.755702
REQUEST 92 2023-07-17 19:05:05.757727
GRANTED 92 2023-07-17 19:05:05.767726
REQUEST 96 2023-07-17 19:05:05.775605
RELEASED 92 2023-07-17 19:05:05.797316
GRANTED 96 2023-07-17 19:05:05.798315
RELEASED 96 2023-07-17 19:05:05.826754
REQUEST 96 2023-07-17 19:05:05.831198
GRANTED 96 2023-07-17 19:05:05.838737
REQUEST 94 2023-07-17 19:05:05.847218
RELEASED 96 2023-07-17 19:05:05.861107
GRANTED 94 2023-07-17 19:05:05.867575
REQUEST 96 2023-07-17 19:05:05.877764
RELEASED 94 2023-07-17 19:05:05.886078
GRANTED 96 2023-07-17 19:05:05.886078
REQUEST 94 2023-07-17 19:05:05.889665
RELEASED 96 2023-07-17 19:05:05.905640
GRANTED 94 2023-07-17 19:05:05.905640
RELEASED 94 2023-07-17 19:05:05.921601
REQUEST 94 2023-07-17 19:05:05.931045
GRANTED 94 2023-07-17 19:05:05.936237
RELEASED 94 2023-07-17 19:05:05.953117
REQUEST 93 2023-07-17 19:05:05.978379
GRANTED 93 2023-07-17 19:05:05.980591
RELEASED 93 2023-07-17 19:05:05.005481
REQUEST 93 2023-07-17 19:05:05.008441
GRANTED 93 2023-07-17 19:05:05.010162
REQUEST 95 2023-07-17 19:05:05.010668
RELEASED 93 2023-07-17 19:05:05.021881
GRANTED 95 2023-07-17 19:05:05.022891
REQUEST 93 2023-07-17 19:05:05.022891
RELEASED 95 2023-07-17 19:05:05.039150
GRANTED 93 2023-07-17 19:05:05.040009
REQUEST 95 2023-07-17 19:05:05.040009
RELEASED 93 2023-07-17 19:05:05.065295
GRANTED 95 2023-07-17 19:05:05.066518
RELEASED 95 2023-07-17 19:05:05.101609

REQUEST 95 2023-07-17 19:05:05.106962
GRANTED 95 2023-07-17 19:05:05.106962
RELEASED 95 2023-07-17 19:05:05.127860
REQUEST 98 2023-07-17 19:05:05.181002
GRANTED 98 2023-07-17 19:05:05.183317
RELEASED 98 2023-07-17 19:05:05.200981
REQUEST 98 2023-07-17 19:05:05.205168
GRANTED 98 2023-07-17 19:05:05.206180
RELEASED 98 2023-07-17 19:05:05.217713
REQUEST 98 2023-07-17 19:05:05.219376
GRANTED 98 2023-07-17 19:05:05.219376
RELEASED 98 2023-07-17 19:05:05.233446
REQUEST 97 2023-07-17 19:05:05.319426
GRANTED 97 2023-07-17 19:05:05.319426
RELEASED 97 2023-07-17 19:05:05.326505
REQUEST 97 2023-07-17 19:05:05.328505
GRANTED 97 2023-07-17 19:05:05.328505
RELEASED 97 2023-07-17 19:05:05.341090
REQUEST 97 2023-07-17 19:05:05.343616
GRANTED 97 2023-07-17 19:05:05.346336
REQUEST 101 2023-07-17 19:05:05.348107
RELEASED 97 2023-07-17 19:05:05.359029
GRANTED 101 2023-07-17 19:05:05.359029
RELEASED 101 2023-07-17 19:05:05.379315
REQUEST 101 2023-07-17 19:05:05.380907
GRANTED 101 2023-07-17 19:05:05.381616
RELEASED 101 2023-07-17 19:05:05.397451
REQUEST 101 2023-07-17 19:05:05.400113
GRANTED 101 2023-07-17 19:05:05.401630
RELEASED 101 2023-07-17 19:05:05.414164
REQUEST 100 2023-07-17 19:05:05.457195
GRANTED 100 2023-07-17 19:05:05.457790
RELEASED 100 2023-07-17 19:05:05.467349
REQUEST 100 2023-07-17 19:05:05.469774
GRANTED 100 2023-07-17 19:05:05.469774
RELEASED 100 2023-07-17 19:05:05.479358
REQUEST 100 2023-07-17 19:05:05.480020
GRANTED 100 2023-07-17 19:05:05.480525
RELEASED 100 2023-07-17 19:05:05.489316
REQUEST 102 2023-07-17 19:05:05.576288
GRANTED 102 2023-07-17 19:05:05.576924
RELEASED 102 2023-07-17 19:05:05.592236
REQUEST 102 2023-07-17 19:05:05.593760
GRANTED 102 2023-07-17 19:05:05.594785
RELEASED 102 2023-07-17 19:05:05.610089
REQUEST 102 2023-07-17 19:05:05.611891
GRANTED 102 2023-07-17 19:05:05.612401
RELEASED 102 2023-07-17 19:05:05.625564
REQUEST 99 2023-07-17 19:05:05.706096
GRANTED 99 2023-07-17 19:05:05.706602
RELEASED 99 2023-07-17 19:05:05.708524
REQUEST 99 2023-07-17 19:05:05.709207
GRANTED 99 2023-07-17 19:05:05.709423
RELEASED 99 2023-07-17 19:05:05.718534
REQUEST 99 2023-07-17 19:05:05.719040

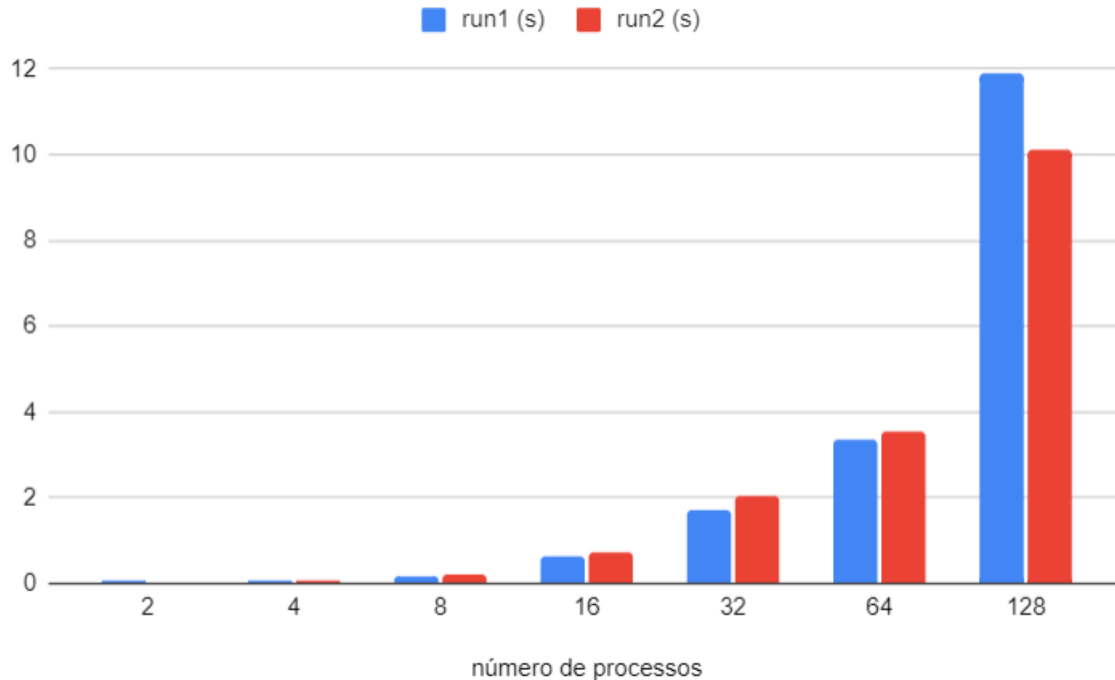
GRANTED 99 2023-07-17 19:05:05.719222
RELEASED 99 2023-07-17 19:05:05.726777
REQUEST 105 2023-07-17 19:05:05.830912
GRANTED 105 2023-07-17 19:05:05.831426
RELEASED 105 2023-07-17 19:05:05.833660
REQUEST 105 2023-07-17 19:05:05.834168
GRANTED 105 2023-07-17 19:05:05.834717
RELEASED 105 2023-07-17 19:05:05.843310
REQUEST 105 2023-07-17 19:05:05.844056
GRANTED 105 2023-07-17 19:05:05.844980
RELEASED 105 2023-07-17 19:05:05.855095
REQUEST 103 2023-07-17 19:05:05.878993
GRANTED 103 2023-07-17 19:05:05.878993
REQUEST 104 2023-07-17 19:05:05.879618
RELEASED 103 2023-07-17 19:05:05.881131
GRANTED 104 2023-07-17 19:05:05.881638
REQUEST 103 2023-07-17 19:05:05.881638
RELEASED 104 2023-07-17 19:05:05.890315
GRANTED 103 2023-07-17 19:05:05.891317
REQUEST 104 2023-07-17 19:05:05.891826
RELEASED 103 2023-07-17 19:05:05.901862
GRANTED 104 2023-07-17 19:05:05.902483
REQUEST 103 2023-07-17 19:05:05.904109
RELEASED 104 2023-07-17 19:05:05.912139
GRANTED 103 2023-07-17 19:05:05.912236
REQUEST 104 2023-07-17 19:05:05.912890
RELEASED 103 2023-07-17 19:05:05.919928
GRANTED 104 2023-07-17 19:05:05.921435
RELEASED 104 2023-07-17 19:05:05.932306
REQUEST 106 2023-07-17 19:05:05.208120
GRANTED 106 2023-07-17 19:05:05.208120
RELEASED 106 2023-07-17 19:05:05.210093
REQUEST 106 2023-07-17 19:05:05.210602
GRANTED 106 2023-07-17 19:05:05.210602
RELEASED 106 2023-07-17 19:05:05.218603
REQUEST 106 2023-07-17 19:05:05.219110
GRANTED 106 2023-07-17 19:05:05.219637
RELEASED 106 2023-07-17 19:05:05.229647
REQUEST 107 2023-07-17 19:05:05.438233
GRANTED 107 2023-07-17 19:05:05.438739
REQUEST 109 2023-07-17 19:05:05.439371
RELEASED 107 2023-07-17 19:05:05.440400
GRANTED 109 2023-07-17 19:05:05.441407
REQUEST 107 2023-07-17 19:05:05.442023
RELEASED 109 2023-07-17 19:05:05.449224
GRANTED 107 2023-07-17 19:05:05.449694
REQUEST 109 2023-07-17 19:05:05.450200
RELEASED 107 2023-07-17 19:05:05.458251
GRANTED 109 2023-07-17 19:05:05.459077
REQUEST 107 2023-07-17 19:05:05.459581
RELEASED 109 2023-07-17 19:05:05.465399
GRANTED 107 2023-07-17 19:05:05.465818
REQUEST 109 2023-07-17 19:05:05.466325
REQUEST 110 2023-07-17 19:05:05.470148
RELEASED 107 2023-07-17 19:05:05.473475

GRANTED 109 2023-07-17 19:05:05.473977
RELEASED 109 2023-07-17 19:05:05.480019
GRANTED 110 2023-07-17 19:05:05.481020
RELEASED 110 2023-07-17 19:05:05.491123
REQUEST 110 2023-07-17 19:05:05.492332
GRANTED 110 2023-07-17 19:05:05.493067
RELEASED 110 2023-07-17 19:05:05.502247
REQUEST 110 2023-07-17 19:05:05.503340
GRANTED 110 2023-07-17 19:05:05.503340
RELEASED 110 2023-07-17 19:05:05.510401
REQUEST 108 2023-07-17 19:05:05.578298
GRANTED 108 2023-07-17 19:05:05.578903
REQUEST 111 2023-07-17 19:05:05.578903
RELEASED 108 2023-07-17 19:05:05.585458
GRANTED 111 2023-07-17 19:05:05.585458
REQUEST 108 2023-07-17 19:05:05.586049
RELEASED 111 2023-07-17 19:05:05.592212
GRANTED 108 2023-07-17 19:05:05.592717
REQUEST 111 2023-07-17 19:05:05.593378
RELEASED 108 2023-07-17 19:05:05.599764
GRANTED 111 2023-07-17 19:05:05.599764
REQUEST 108 2023-07-17 19:05:05.600268
RELEASED 111 2023-07-17 19:05:05.606364
GRANTED 108 2023-07-17 19:05:05.606525
REQUEST 111 2023-07-17 19:05:05.607030
RELEASED 108 2023-07-17 19:05:05.613696
GRANTED 111 2023-07-17 19:05:05.613696
RELEASED 111 2023-07-17 19:05:05.619736
REQUEST 112 2023-07-17 19:05:05.676966
GRANTED 112 2023-07-17 19:05:05.676966
RELEASED 112 2023-07-17 19:05:05.678702
REQUEST 112 2023-07-17 19:05:05.679631
GRANTED 112 2023-07-17 19:05:05.679908
RELEASED 112 2023-07-17 19:05:05.687857
REQUEST 112 2023-07-17 19:05:05.688363
GRANTED 112 2023-07-17 19:05:05.688649
RELEASED 112 2023-07-17 19:05:05.695200
REQUEST 113 2023-07-17 19:05:05.808622
GRANTED 113 2023-07-17 19:05:05.809129
RELEASED 113 2023-07-17 19:05:05.815700
REQUEST 113 2023-07-17 19:05:05.816396
GRANTED 113 2023-07-17 19:05:05.816396
RELEASED 113 2023-07-17 19:05:05.824827
REQUEST 113 2023-07-17 19:05:05.825876
GRANTED 113 2023-07-17 19:05:05.825876
RELEASED 113 2023-07-17 19:05:05.829963
REQUEST 115 2023-07-17 19:05:05.891721
GRANTED 115 2023-07-17 19:05:05.892245
RELEASED 115 2023-07-17 19:05:05.901457
REQUEST 115 2023-07-17 19:05:05.902285
GRANTED 115 2023-07-17 19:05:05.902637
RELEASED 115 2023-07-17 19:05:05.909992
REQUEST 115 2023-07-17 19:05:05.910500
GRANTED 115 2023-07-17 19:05:05.910500
RELEASED 115 2023-07-17 19:05:05.917950

REQUEST 117 2023-07-17 19:05:05.947325
GRANTED 117 2023-07-17 19:05:05.947892
RELEASED 117 2023-07-17 19:05:05.955610
REQUEST 117 2023-07-17 19:05:05.956310
GRANTED 117 2023-07-17 19:05:05.956310
RELEASED 117 2023-07-17 19:05:05.962572
REQUEST 117 2023-07-17 19:05:05.964041
GRANTED 117 2023-07-17 19:05:05.964576
RELEASED 117 2023-07-17 19:05:05.972130
REQUEST 114 2023-07-17 19:05:05.057677
GRANTED 114 2023-07-17 19:05:05.057677
RELEASED 114 2023-07-17 19:05:05.066947
REQUEST 114 2023-07-17 19:05:05.067495
GRANTED 114 2023-07-17 19:05:05.068019
RELEASED 114 2023-07-17 19:05:05.076688
REQUEST 114 2023-07-17 19:05:05.077193
GRANTED 114 2023-07-17 19:05:05.077352
RELEASED 114 2023-07-17 19:05:05.083761
REQUEST 118 2023-07-17 19:05:05.088205
GRANTED 118 2023-07-17 19:05:05.088205
RELEASED 118 2023-07-17 19:05:05.096068
REQUEST 118 2023-07-17 19:05:05.096573
GRANTED 118 2023-07-17 19:05:05.096851
REQUEST 116 2023-07-17 19:05:05.105285
RELEASED 118 2023-07-17 19:05:05.105566
GRANTED 116 2023-07-17 19:05:05.106276
REQUEST 118 2023-07-17 19:05:05.106782
RELEASED 116 2023-07-17 19:05:05.116441
GRANTED 118 2023-07-17 19:05:05.118264
REQUEST 116 2023-07-17 19:05:05.119795
RELEASED 118 2023-07-17 19:05:05.128951
GRANTED 116 2023-07-17 19:05:05.128951
RELEASED 116 2023-07-17 19:05:05.140079
REQUEST 116 2023-07-17 19:05:05.141181
GRANTED 116 2023-07-17 19:05:05.141468
RELEASED 116 2023-07-17 19:05:05.151039
REQUEST 119 2023-07-17 19:05:05.225948
GRANTED 119 2023-07-17 19:05:05.226453
RELEASED 119 2023-07-17 19:05:05.234038
REQUEST 119 2023-07-17 19:05:05.235462
GRANTED 119 2023-07-17 19:05:05.235851
RELEASED 119 2023-07-17 19:05:05.243257
REQUEST 119 2023-07-17 19:05:05.243906
GRANTED 119 2023-07-17 19:05:05.243906
RELEASED 119 2023-07-17 19:05:05.249933
REQUEST 120 2023-07-17 19:05:05.336452
GRANTED 120 2023-07-17 19:05:05.336984
RELEASED 120 2023-07-17 19:05:05.339051
REQUEST 120 2023-07-17 19:05:05.340130
GRANTED 120 2023-07-17 19:05:05.340130
RELEASED 120 2023-07-17 19:05:05.347982
REQUEST 120 2023-07-17 19:05:05.348490
GRANTED 120 2023-07-17 19:05:05.349016
RELEASED 120 2023-07-17 19:05:05.359537
REQUEST 122 2023-07-17 19:05:05.398498

GRANTED 122 2023-07-17 19:05:05.398498
RELEASED 122 2023-07-17 19:05:05.400439
REQUEST 122 2023-07-17 19:05:05.401908
GRANTED 122 2023-07-17 19:05:05.402417
RELEASED 122 2023-07-17 19:05:05.411866
REQUEST 122 2023-07-17 19:05:05.412553
GRANTED 122 2023-07-17 19:05:05.413771
RELEASED 122 2023-07-17 19:05:05.422047
REQUEST 121 2023-07-17 19:05:05.537552
GRANTED 121 2023-07-17 19:05:05.538056
RELEASED 121 2023-07-17 19:05:05.544954
REQUEST 121 2023-07-17 19:05:05.545643
GRANTED 121 2023-07-17 19:05:05.545643
RELEASED 121 2023-07-17 19:05:05.552603
REQUEST 121 2023-07-17 19:05:05.553990
GRANTED 121 2023-07-17 19:05:05.554539
RELEASED 121 2023-07-17 19:05:05.561366
REQUEST 127 2023-07-17 19:05:05.570403
GRANTED 127 2023-07-17 19:05:05.571910
REQUEST 123 2023-07-17 19:05:05.571910
REQUEST 124 2023-07-17 19:05:05.574022
RELEASED 127 2023-07-17 19:05:05.582056
GRANTED 123 2023-07-17 19:05:05.582424
REQUEST 127 2023-07-17 19:05:05.583800
RELEASED 123 2023-07-17 19:05:05.592041
GRANTED 124 2023-07-17 19:05:05.592738
REQUEST 123 2023-07-17 19:05:05.593431
RELEASED 124 2023-07-17 19:05:05.603124
GRANTED 127 2023-07-17 19:05:05.603630
REQUEST 124 2023-07-17 19:05:05.604199
RELEASED 127 2023-07-17 19:05:05.611248
GRANTED 123 2023-07-17 19:05:05.611248
REQUEST 127 2023-07-17 19:05:05.611788
RELEASED 123 2023-07-17 19:05:05.619873
GRANTED 124 2023-07-17 19:05:05.619873
REQUEST 123 2023-07-17 19:05:05.621491
RELEASED 124 2023-07-17 19:05:05.630068
GRANTED 127 2023-07-17 19:05:05.630068
REQUEST 124 2023-07-17 19:05:05.630574
RELEASED 127 2023-07-17 19:05:05.638848
GRANTED 123 2023-07-17 19:05:05.638848
RELEASED 123 2023-07-17 19:05:05.649282
GRANTED 124 2023-07-17 19:05:05.650196
RELEASED 124 2023-07-17 19:05:05.665587
REQUEST 126 2023-07-17 19:05:05.667813
GRANTED 126 2023-07-17 19:05:05.668584
RELEASED 126 2023-07-17 19:05:05.680155
REQUEST 126 2023-07-17 19:05:05.682015
GRANTED 126 2023-07-17 19:05:05.682521
RELEASED 126 2023-07-17 19:05:05.693200
REQUEST 125 2023-07-17 19:05:05.694909
GRANTED 125 2023-07-17 19:05:05.694984
REQUEST 126 2023-07-17 19:05:05.695489
RELEASED 125 2023-07-17 19:05:05.704066
GRANTED 126 2023-07-17 19:05:05.704066

```
REQUEST 125 2023-07-17 19:05:05.704573
RELEASED 126 2023-07-17 19:05:05.712392
GRANTED 125 2023-07-17 19:05:05.712392
RELEASED 125 2023-07-17 19:05:05.721430
REQUEST 125 2023-07-17 19:05:05.722571
GRANTED 125 2023-07-17 19:05:05.722757
RELEASED 125 2023-07-17 19:05:05.729804
```



Conclusões

Dado o fato de que o servidor precisa organizar o acesso exclusivo à zona crítica, e ordenar os pedidos que chegam nele de maneira sequencial, o tempo de conclusão acaba sendo muito correlacionado (quase linearmente) à quantidade de acessos à zona crítica necessária ($n * r$).

Especialmente no teste de escalabilidade 1 e 2, onde o tempo de espera entre pedidos é mais significativo, dobrar a quantidade de processos resulta no dobro do tempo necessário para gerar o arquivo; Faz sentido, já que a maior parte do tempo percorrido vem do tempo de espera entre requisições, quando o processo pede o REQUEST, recebe seu GRANT rapidamente, o tempo total é majoritariamente determinado por $(n * r * k)$ segundos.

Já no teste de escalabilidade 3, com $k = 0$, caminhamos pra uma situação menos previsível onde todos os processos constantemente pedem acesso à região crítica, mas o servidor ainda consegue ordenar e excluir mutuamente o acesso. O resultado é que saímos um pouco do regime linear, de maneira que duplicar a quantidade de processos (e requisições/acessos à ZC necessários) mais que duplica o tempo necessários, especialmente no caso de 128 processos.

Isso se dá, provavelmente, ao fato da limitação do servidor à ter 100 sockets conectados ao mesmo tempo, nos testes de escalabilidade 1 e 2, dado que o tempo de sleep é o que mais demora, não temos todos os processos ao mesmo tempo tentando se comunicar com o servidor, o que é verdade no teste 3. Mesmo com essa superlinearidade, o tempo total necessário para resolver todos os pedidos é muito mais rápido ao deixar os pedidos pedirem sem tempo de espera, já que no nosso caso a ZC é $O(1)$ e os processos acabam esperando muito mais que efetivamente executando.