

Test Cases

OSC10e-July2018 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
osc@ubuntu:~/assignment/AA4$ make run
./allocation 1048576
Allocated 1048576 bytes of memory
Allocator>rq p01 1000 B
Sucessfully allocated 1000 to process P01
Allocator>rq p02 10000 F
Sucessfully allocated 10000 to process P02
Allocator>rq p04 20000 W
Sucessfully allocated 20000 to process P04
Allocator>rl p02
releasing memory for process P02
Sucessfully released memory for process P02
Allocator>status
Partitions [Allocated memory = 21000]:
Address [0:999] Process P01
Address [11000:30999] Process P04

Holes [Free memory = 1027576]:
Address [1000:10999] len = 10000
Address [31000:1048575] len = 1017576
Allocator>rq p10 9000 W
index = 0 delta = 1000 best delta = -1
index = 1 delta = 1008576 best delta = 1000
Sucessfully allocated 9000 to process P10
Allocator>status
Partitions [Allocated memory = 30000]:
Address [0:999] Process P01
Address [11000:30999] Process P04
Address [31000:39999] Process P10

Holes [Free memory = 1018576]:
Address [1000:10999] len = 10000
Address [40000:1048575] len = 1008576
Allocator>
```

```
Allocator>rq p04 20000 W
Sucessfully allocated 20000 to process P04
Allocator>rl p02
releasing memory for process P02
Successfully released memory for process P02
Allocator>status
Partitions [Allocated memory = 21000]:
Address [0:999] Process P01
Address [11000:30999] Process P04

Holes [Free memory = 1027576]:
Address [1000:10999] len = 10000
Address [31000:1048575] len = 1017576
Allocator>rq p10 9000 W
index = 0 delta = 1000 best delta = -1
index = 1 delta = 1008576 best delta = 1000
Sucessfully allocated 9000 to process P10
Allocator>status
Partitions [Allocated memory = 30000]:
Address [0:999] Process P01
Address [11000:30999] Process P04
Address [31000:39999] Process P10

Holes [Free memory = 1018576]:
Address [1000:10999] len = 10000
Address [40000:1048575] len = 1008576
Allocator>c
Compaction process is successful
Allocator>status
Partitions [Allocated memory = 30000]:
Address [0:999] Process P01
Address [1000:20999] Process P04
Address [21000:29999] Process P10

Holes [Free memory = 1018576]:
Address [30000:1048575] len = 1018576
Allocator>_
```

```
Holes [Free memory = 1018576]:
Address [1000:10999] len = 10000
Address [40000:1048575] len = 1008576
Allocator>c
Compaction process is successful
Allocator>status
Partitions [Allocated memory = 30000]:
Address [0:999] Process P01
Address [1000:20999] Process P04
Address [21000:29999] Process P10

Holes [Free memory = 1018576]:
Address [30000:1048575] len = 1018576
Allocator>rl
Incorrect input for release memory
Allocator>rq p01
Incorrect input for request memory
Allocator>cc

Input is incorrect, check and input again!
Allocator>status
Partitions [Allocated memory = 30000]:
Address [0:999] Process P01
Address [1000:20999] Process P04
Address [21000:29999] Process P10

Holes [Free memory = 1018576]:
Address [30000:1048575] len = 1018576
Allocator>rq p20 1020000 B
No hole of sufficient size
Allocator>rl p10
releasing memory for process P10
Successfully released memory for process P10
Allocator>rq p20 1020000 B
Successfully allocated 1020000 to process P20
Allocator>
```

```
Allocator>rl p10
releasing memory for process P10
Successfully released memory for process P10
Allocator>rq p20 1020000 B
Sucessfully allocated 1020000 to process P20
Allocator>status
Partitions [Allocated memory = 1041000]:
Address [0:999] Process P01
Address [1000:20999] Process P04
Address [21000:1040999] Process P20

Holes [Free memory = 7576]:
Address [1041000:1048575] len = 7576
Allocator>rl p04
releasing memory for process P04
Successfully released memory for process P04
Allocator>status
Partitions [Allocated memory = 1021000]:
Address [0:999] Process P01
Address [21000:1040999] Process P20

Holes [Free memory = 27576]:
Address [1000:20999] len = 20000
Address [1041000:1048575] len = 7576
Allocator>c
Compaction process is successful
Allocator>status
Partitions [Allocated memory = 1021000]:
Address [0:999] Process P01
Address [1000:1020999] Process P20

Holes [Free memory = 27576]:
Address [1021000:1048575] len = 27576
Allocator>exit
```

```
Program Terminated per User Request
osc@ubuntu:~/assignment/AA4$ _
```