Memory Created

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Process Created 0

Writing complete

Process Created 1

Writing complete

Process Created 2

Writing complete

Before removing process 0 and 2

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Process ID : 0 Process Size : 11 Bottom : 0 Top : 10

Process ID : 1 Process Size : 14 Bottom : 11 Top : 24

Process ID : 2 Process Size : 17 Bottom : 25 Top : 41

After removing processes

0 0 0 0 0 0 0 0 0 0

0 1 1 1 1 1 1 1 1 1

1 1 1 1 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Continue? 0

Process Created 3

Writing complete

Process Created 4

Writing complete

Process Created 5

Writing complete

Before removing process 4 and 3

1 1 1 1 1 1 1 1 1 1

0 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Process ID : 3 Process Size : 3 Bottom : 0 Top : 2

Process ID : 4 Process Size : 7 Bottom : 3 Top : 9

Process ID : 5 Process Size : 10 Bottom : 25 Top : 34

After removing processes

0 0 0 0 0 0 0 0 0 0

0 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Continue? 0

Process Created 6

Writing complete

Process Created 7

Writing complete

Process Created 8

Writing complete

Before removing process 7 and 6

0 0 0 0 0 0 0 0 0 0

0 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Process ID : 6 Process Size : 13 Bottom : 35 Top : 47

Process ID : 7 Process Size : 16 Bottom : 48 Top : 63

Process ID : 8 Process Size : 19 Bottom : 64 Top : 82

After removing processes

0 0 0 0 0 0 0 0 0 0

0 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Continue? 0

Process Created 9

Writing complete

Process Created 10

Writing complete

Process Created 11

Writing complete

Before removing process 9 and 10

1 1 1 1 1 1 1 0 0 0

0 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Process ID : 9 Process Size : 29 Bottom : 35 Top : 63

Process ID : 10 Process Size : 2 Bottom : 0 Top : 1

Process ID : 11 Process Size : 5 Bottom : 2 Top : 6

After removing processes

0 0 1 1 1 1 1 0 0 0

0 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Continue? 0

Process Created 12

Writing complete

Process Created 13

Writing complete

Process Created 14

Writing complete

Before removing process 13 and 12

1 0 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Process ID : 12 Process Size : 28 Bottom : 35 Top : 62

Process ID : 13 Process Size : 1 Bottom : 0 Top : 0

Process ID : 14 Process Size : 4 Bottom : 7 Top : 10

After removing processes

0 0 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Continue? 0

Process Created 15

Writing complete

Process Created 16

Process Created 17

Before removing process 15 and 16

0 0 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

Process ID : 15 Process Size : 14 Bottom : 35 Top : 48

Process ID : 16 Process Size : 17 Bottom : 83 Top : 99

Process ID : 17 Process Size : 21 Bottom : -858993460 Top : -858993460

After removing processes

0 0 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Continue? 0

Process Created 18

Writing complete

Process Created 19

================================CANNOT WRITE 19 ===============================

================================CANNOT WRITE 19 ===============================

================================CANNOT WRITE 19 ===============================

Process Created 20

Writing complete

Before removing process 20 and 18

0 0 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 0 0 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 0 0 0

0 0 0 0 0 0 0 0 0 0

Process ID : 18 Process Size : 27 Bottom : 35 Top : 61

Process ID : 19 Process Size : 30 Bottom : -858993460 Top : -858993460

Process ID : 20 Process Size : 4 Bottom : 83 Top : 86

After removing processes

0 0 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0