```
 1
 2
 3
 4 Output:
 5
 6 Allocator: A : 20
 7 2048 bytes: 0 Available
 8 1024 bytes: 1 Available: 1024,
 9 512 bytes: 1 Available: 512,
10 256 bytes: 1 Available: 256,
11 128 bytes: 1 Available: 128,
12 64 bytes: 1 Available: 64,
13 32 bytes: 1 Available: 32,
14 16 bytes: 0 Available
15 8 bytes: 0 Available
16 4 bytes: 0 Available
17 2 bytes: 0 Available
18 1 bytes: 0 Available
19 Process A has memory from 0 to 32
20
21 Allocator: B : 35
22 2048 bytes: 0 Available
23 1024 bytes: 1 Available: 1024,
24 512 bytes: 1 Available: 512,
25 256 bytes: 1 Available: 256,
26 128 bytes: 1 Available: 128,
27 64 bytes: 0 Available
28 32 bytes: 1 Available: 32,
29 16 bytes: 0 Available
30 8 bytes: 0 Available
31 4 bytes: 0 Available
32 2 bytes: 0 Available
33 1 bytes: 0 Available
34 Process A has memory from 0 to 32
35 Process B has memory from 64 to 128
36
37 Allocator: C : 90
38 2048 bytes: 0 Available
39 1024 bytes: 1 Available: 1024,
40 512 bytes: 1 Available: 512,
41 256 bytes: 1 Available: 256,
42 128 bytes: 0 Available
43 64 bytes: 0 Available
44 32 bytes: 1 Available: 32,
45 16 bytes: 0 Available
46 8 bytes: 0 Available
```

```
47  4 bytes: 0 Available
48  2 bytes: 0 Available
49  1 bytes: 0 Available
50  Process A has memory from 0 to 32
51  Process B has memory from 64 to 128
52  Process C has memory from 128 to 256
53
54  Allocator: D : 40
55  2048 bytes: 0 Available
56  1024 bytes: 1 Available: 1024,
57  512 bytes: 1 Available: 512,
58  256 bytes: 0 Available
59  128 bytes: 1 Available: 384,
60  64 bytes: 1 Available: 320,
61  32 bytes: 1 Available: 32,
62  16 bytes: 0 Available
63  8 bytes: 0 Available
64  4 bytes: 0 Available
65  2 bytes: 0 Available
66  1 bytes: 0 Available
67  Process A has memory from 0 to 32
68  Process B has memory from 64 to 128
69  Process C has memory from 128 to 256
70  Process D has memory from 256 to 320
71
72  Allocator: E : 240
73  2048 bytes: 0 Available
74  1024 bytes: 1 Available: 1024,
75  512 bytes: 0 Available
76  256 bytes: 1 Available: 768,
77  128 bytes: 1 Available: 384,
78  64 bytes: 1 Available: 320,
79  32 bytes: 1 Available: 32,
80  16 bytes: 0 Available
81  8 bytes: 0 Available
82  4 bytes: 0 Available
83  2 bytes: 0 Available
84  1 bytes: 0 Available
85  Process A has memory from 0 to 32
86  Process B has memory from 64 to 128
87  Process C has memory from 128 to 256
88  Process D has memory from 256 to 320
89  Process E has memory from 512 to 768
90
91  Deallocator: D : -40
92  2048 bytes: 0 Available
```

```
 93 1024 bytes: 1 Available: 1024,
 94 512 bytes: 0 Available
 95 256 bytes: 2 Available: 256, 768,
 96 128 bytes: 0 Available
 97 64 bytes: 0 Available
 98 32 bytes: 1 Available: 32,
 99 16 bytes: 0 Available
100 8 bytes: 0 Available
101 4 bytes: 0 Available
102 2 bytes: 0 Available
103 1 bytes: 0 Available
104 Process A has memory from 0 to 32
105 Process B has memory from 64 to 128
106 Process C has memory from 128 to 256
107 Process E has memory from 512 to 768
108
109 Deallocator: A : -20
110 2048 bytes: 0 Available
111 1024 bytes: 1 Available: 1024,
112 512 bytes: 0 Available
113 256 bytes: 2 Available: 256, 768,
114 128 bytes: 0 Available
115 64 bytes: 1 Available: 0,
116 32 bytes: 0 Available
117 16 bytes: 0 Available
118 8 bytes: 0 Available
119 4 bytes: 0 Available
120 2 bytes: 0 Available
121 1 bytes: 0 Available
122 Process B has memory from 64 to 128
123 Process C has memory from 128 to 256
124 Process E has memory from 512 to 768
125
126 Deallocator: C : -90
127 2048 bytes: 0 Available
128 1024 bytes: 1 Available: 1024,
129 512 bytes: 0 Available
130 256 bytes: 2 Available: 256, 768,
131 128 bytes: 1 Available: 128,
132 64 bytes: 1 Available: 0,
133 32 bytes: 0 Available
134 16 bytes: 0 Available
135 8 bytes: 0 Available
136 4 bytes: 0 Available
137 2 bytes: 0 Available
138 1 bytes: 0 Available
```

```
139  Process B has memory from 64 to 128
140  Process E has memory from 512 to 768
141
142  Deallocator: B : -35
143  2048 bytes: 0 Available
144  1024 bytes: 1 Available: 1024,
145  512 bytes: 1 Available: 0,
146  256 bytes: 1 Available: 768,
147  128 bytes: 0 Available
148  64 bytes: 0 Available
149  32 bytes: 0 Available
150  16 bytes: 0 Available
151  8 bytes: 0 Available
152  4 bytes: 0 Available
153  2 bytes: 0 Available
154  1 bytes: 0 Available
155  Process E has memory from 512 to 768
156
157  Deallocator: E : -240
158  2048 bytes: 1 Available: 0,
159  1024 bytes: 0 Available
160  512 bytes: 0 Available
161  256 bytes: 0 Available
162  128 bytes: 0 Available
163  64 bytes: 0 Available
164  32 bytes: 0 Available
165  16 bytes: 0 Available
166  8 bytes: 0 Available
167  4 bytes: 0 Available
168  2 bytes: 0 Available
169  1 bytes: 0 Available
170
171
```