```
*************
    The time to do the bubbleSort was: 0.0003ms
    The list is sorted
    printIt with list size: 10 capacity = 10
6
    At pos 0 there is 158119
7
    At pos 1 there is 216262
8
   At pos 2 there is 349752
9
   At pos 3 there is 377743
10
   At pos 4 there is 391529
11
   At pos 5 there is 417256
12
   At pos 6 there is 475508
13
   At pos 7 there is 669700
14
    At pos 8 there is 765933
15
    At pos 9 there is 887256
    ******************
16
17
    The time to do the selectionSort was: 0.0002ms
18
    The list is sorted
19
   printIt with list size: 10 capacity = 10
20
   At pos 0 there is 158119
21
   At pos 1 there is 216262
22
   At pos 2 there is 349752
23
   At pos 3 there is 377743
24
   At pos 4 there is 391529
    At pos 5 there is 417256
25
26
    At pos 6 there is 475508
27
    At pos 7 there is 669700
28
   At pos 8 there is 765933
29
    At pos 9 there is 887256
    ******************
30
31
    The time to do the insertionSort was: 0.0002ms
32
   The list is sorted
33
   printIt with list size: 10 capacity = 10
34
   At pos 0 there is 158119
35
   At pos 1 there is 216262
36
    At pos 2 there is 349752
    At pos 3 there is 377743
37
38
    At pos 4 there is 391529
39
   At pos 5 there is 417256
40
   At pos 6 there is 475508
41
   At pos 7 there is 669700
42 At pos 8 there is 765933
43
   At pos 9 there is 887256
    ************
44
45
    The time to do the heapSort was: 0.0003ms
46
    The list is sorted
    printIt with list size: 10 capacity = 10
47
48
    At pos 0 there is 158119
49
    At pos 1 there is 216262
50
   At pos 2 there is 349752
51
   At pos 3 there is 377743
52
   At pos 4 there is 391529
53
   At pos 5 there is 417256
54
   At pos 6 there is 475508
55
   At pos 7 there is 669700
56
   At pos 8 there is 765933
57
   At pos 9 there is 887256
58
    *****************
59
60
    The time to do the bubbleSort was: 0.0012ms
61
    The list is sorted
62
    printIt with list size: 30 capacity = 30
63
    At pos 0 there is 32868
64
   At pos 1 there is 78705
65
   At pos 2 there is 118330
66
   At pos 3 there is 137366
67
   At pos 4 there is 158119
68 At pos 5 there is 206980
69
   At pos 6 there is 216262
```

```
At pos 7 there is 226917
 71
     At pos 8 there is 268351
 72
     At pos 9 there is 349752
 73
     At pos 10 there is 377743
 74
     At pos 11 there is 391529
 75
     At pos 12 there is 417256
 76
     At pos 13 there is 475508
 77
     At pos 14 there is 488164
 78
     At pos 15 there is 546393
 79
     At pos 16 there is 567592
 80
     At pos 17 there is 638549
 81
     At pos 18 there is 669700
 82
     At pos 19 there is 669847
 83
      At pos 29 there is 957932
      ******************
 84
 85
      The time to do the selectionSort was: 0.001ms
 86
      The list is sorted
 87
      printIt with list size: 30 capacity = 30
 88
     At pos 0 there is 32868
 89
     At pos 1 there is 78705
 90
     At pos 2 there is 118330
 91
     At pos 3 there is 137366
 92
     At pos 4 there is 158119
 93
     At pos 5 there is 206980
 94
     At pos 6 there is 216262
 95
     At pos 7 there is 226917
 96
     At pos 8 there is 268351
 97
     At pos 9 there is 349752
 98
     At pos 10 there is 377743
 99
     At pos 11 there is 391529
100
     At pos 12 there is 417256
101
     At pos 13 there is 475508
102
     At pos 14 there is 488164
103
     At pos 15 there is 546393
104
     At pos 16 there is 567592
105
     At pos 17 there is 638549
106
     At pos 18 there is 669700
107
     At pos 19 there is 669847
108
      At pos 29 there is 957932
109
      110
      The time to do the insertionSort was: 0.0004ms
111
      The list is sorted
112
     printIt with list size: 30 capacity = 30
113
     At pos 0 there is 32868
114
     At pos 1 there is 78705
115
     At pos 2 there is 118330
116
     At pos 3 there is 137366
117
     At pos 4 there is 158119
118
     At pos 5 there is 206980
119
     At pos 6 there is 216262
120
     At pos 7 there is 226917
121
     At pos 8 there is 268351
122
     At pos 9 there is 349752
123
     At pos 10 there is 377743
124
     At pos 11 there is 391529
125
     At pos 12 there is 417256
126
     At pos 13 there is 475508
127
     At pos 14 there is 488164
128
     At pos 15 there is 546393
129
     At pos 16 there is 567592
130
     At pos 17 there is 638549
131
     At pos 18 there is 669700
132
     At pos 19 there is 669847
133
      At pos 29 there is 957932
      *************
134
135
      The time to do the heapSort was: 0.0009ms
136
      The list is sorted
137
      printIt with list size: 30 capacity = 30
138
     At pos 0 there is 32868
```

```
At pos 1 there is 78705
139
140
     At pos 2 there is 118330
141
     At pos 3 there is 137366
142
     At pos 4 there is 158119
143
     At pos 5 there is 206980
144
     At pos 6 there is 216262
145
     At pos 7 there is 226917
146
     At pos 8 there is 268351
147
     At pos 9 there is 349752
148
     At pos 10 there is 377743
149
     At pos 11 there is 391529
150
     At pos 12 there is 417256
151
     At pos 13 there is 475508
152
     At pos 14 there is 488164
153
     At pos 15 there is 546393
154
     At pos 16 there is 567592
155
     At pos 17 there is 638549
156
     At pos 18 there is 669700
157
     At pos 19 there is 669847
158
     At pos 29 there is 957932
159
      n = 40000
      *************
160
161
      The time to do the bubbleSort was: 1883.98ms
162
     The list is sorted
163
     printIt with list size: 40000 capacity = 40000
164
     At pos 0 there is 29
165
     At pos 1 there is 127
166
     At pos 2 there is 150
167
     At pos 3 there is 184
168
     At pos 4 there is 199
169
     At pos 5 there is 239
170
     At pos 6 there is 252
171
     At pos 7 there is 255
     At pos 8 there is 277
172
173
     At pos 9 there is 280
174
     At pos 10 there is 292
175
     At pos 11 there is 300
176
     At pos 12 there is 340
177
     At pos 13 there is 347
178
     At pos 14 there is 369
179
     At pos 15 there is 438
180
     At pos 16 there is 467
181
     At pos 17 there is 504
182
     At pos 18 there is 513
183
     At pos 19 there is 513
184
     At pos 39999 there is 999977
      ******************
185
186
      The time to do the selectionSort was: 380.693ms
187
     The list is sorted
188
     printIt with list size: 40000 capacity = 40000
189
     At pos 0 there is 29
190
     At pos 1 there is 127
191
     At pos 2 there is 150
192
     At pos 3 there is 184
193
     At pos 4 there is 199
194
     At pos 5 there is 239
195
     At pos 6 there is 252
196
     At pos 7 there is 255
197
     At pos 8 there is 277
198
     At pos 9 there is 280
199
     At pos 10 there is 292
200
     At pos 11 there is 300
201
     At pos 12 there is 340
202
     At pos 13 there is 347
203
     At pos 14 there is 369
204
     At pos 15 there is 438
205
     At pos 16 there is 467
     At pos 17 there is 504
206
207
     At pos 18 there is 513
```

```
208
     At pos 19 there is 513
209
     At pos 39999 there is 999977
210
211
     The time to do the insertionSort was: 142.233ms
212
     The list is sorted
213
     printIt with list size: 40000 capacity = 40000
214
     At pos 0 there is 29
215
     At pos 1 there is 127
216
    At pos 2 there is 150
217
    At pos 3 there is 184
218
    At pos 4 there is 199
219 At pos 5 there is 239
220 At pos 6 there is 252
221
     At pos 7 there is 255
222
    At pos 8 there is 277
223
    At pos 9 there is 280
224
    At pos 10 there is 292
225
    At pos 11 there is 300
226 At pos 12 there is 340
227 At pos 13 there is 347
228 At pos 14 there is 369
229 At pos 15 there is 438
230 At pos 16 there is 467
231
     At pos 17 there is 504
232
     At pos 18 there is 513
233
     At pos 19 there is 513
234
     At pos 39999 there is 999977
     ****************
235
236
     The time to do the heapSort was: 1.9361ms
     The list is sorted
237
238
    printIt with list size: 40000 capacity = 40000
239 At pos 0 there is 29
240 At pos 1 there is 127
241 At pos 2 there is 150
242
    At pos 3 there is 184
243
    At pos 4 there is 199
    At pos 5 there is 239
244
245
     At pos 6 there is 252
246
    At pos 7 there is 255
247
     At pos 8 there is 277
248 At pos 9 there is 280
249 At pos 10 there is 292
250 At pos 11 there is 300
251 At pos 12 there is 340
252
    At pos 13 there is 347
253
    At pos 14 there is 369
254
     At pos 15 there is 438
255
     At pos 16 there is 467
256
     At pos 17 there is 504
257
     At pos 18 there is 513
258
    At pos 19 there is 513
259
     At pos 39999 there is 999977
260
```