```
Starting 24 point test                          R----e#1 X=191; n#6 y168
Calculating with integers                       End of add point:
Scale: 500                                      R---- n#5 y238- n#1 y168;  n#6 y168
274 296                                            L---- n#1 y168- n#0 y184;  n#5 y238
357 422                                            |    L---- n#0 y184  -  nil    n#1 y168
301 428                                            R---- n#3 y324- n#6 y168;  n#4 y184
272 423                                                 L---- n#6 y168- n#5 y238;  n#3 y324
211 311                                                 R---- n#4 y184  -  n#3 y324  nil
322 192                                         Beach front (ID x y):
218 148                                         #0:10,184 #1:35,168 #5:191,238 #6:35,168 #3:43,324
445 28                                          #4:10,184
481 136                                         Priority queue:
191 238                                         R----e#1 X=191; n#6 y168
395 406
264 239                                         At x: 191 Removing: e#1 n#6 y168  -  y238, y324
284 196
462 418                                         Adding p#4  x211  y311
35 168                                          BT start: 3 324
43 324                                          At x: 211  Adding: e#2, X=212; n#3 y324 - y238, y311
10 184                                          R----e#2 X=212; n#3 y324
416 478                                         End of add point:
389 70                                          R---- n#5 y238- n#1 y168;  n#3 y324
435 435                                            L---- n#1 y168- n#0 y184;  n#5 y238
489 236                                            |    L---- n#0 y184  -  nil    n#1 y168
399 400                                            R---- n#8 y324- n#7 y311;  n#4 y184
230 260                                                 L---- n#3 y324- n#5 y238;  n#7 y311
390 339                                                 |    R---- n#7 y311- n#3 y324;  n#8 y324
                                                        R---- n#4 y184  -  n#8 y324  nil
Sorted points                                   Beach front (ID x y):
10 184                                          #0:10,184 #1:35,168 #5:191,238 #3:43,324 #7:211,311
35 168                                          #8:43,324 #4:10,184
43 324                                          Priority queue:
191 238                                         R----e#2 X=212; n#3 y324
211 311
218 148                                         At x: 212 Removing: e#2 n#3 y324  -  y238, y311
230 260
264 239                                         Adding p#5  x218  y148
272 423                                         BT start: 1 168
274 296                                         At x: 218  Adding: e#3, X=221; n#10 y168 - y148, y238
284 196                                         R----e#3 X=221; n#10 y168
301 428                                         End of add point:
322 192                                         R---- n#5 y238- n#10 y168;  n#7 y311
357 422                                            L---- n#1 y168- n#0 y184;  n#9 y148
389 70                                             |    L---- n#0 y184  -  nil    n#1 y168
390 339                                            |    R---- n#9 y148- n#1 y168;  n#10 y168
395 406                                            |         R---- n#10 y168- n#9 y148;  n#5 y238
399 400                                            R---- n#8 y324- n#7 y311;  n#4 y184
416 478                                                 L---- n#7 y311- n#5 y238;  n#8 y324
435 435                                                 R---- n#4 y184  -  n#8 y324  nil
445 28                                          Beach front (ID x y):
462 418                                         #0:10,184 #1:35,168 #9:218,148 #10:35,168 #5:191,238
481 136                                         #7:211,311 #8:43,324 #4:10,184
489 236                                         Priority queue:
                                                R----e#3 X=221; n#10 y168
nSites: 24
                                                At x: 221 Removing: e#3 n#10 y168  -  y148, y238
Adding p#0  x10  y184                           At x: 221  Adding: e#4, X=499; n#5 y238 - y148, y311
End of add point:                               R----e#4 X=499; n#5 y238
R----
Beach front (ID x y):                           Adding p#6  x230  y260
#0:10,184                                       BT start: 5 238
                                                At x: 230  Invalid: e#4 n#5 y238
Adding p#1  x35  y168                           At x: 230  Adding: e#5, X=294; n#5 y238 - y148, y260
BT start: 0 184                                 R----e#5 X=294; n#5 y238
End of add point:                               At x: 230  Adding: e#6, X=234; n#12 y238 - y260, y311
R---- n#1 y168- n#0 y184;  n#2 y184            R----e#5 X=294; n#5 y238
   L---- n#0 y184  -  nil    n#1 y168              L----e#6 X=234; n#12 y238
   R---- n#2 y184  -  n#1 y168  nil             End of add point:
Beach front (ID x y):                           R---- n#5 y238- n#9 y148;  n#11 y260
#0:10,184 #1:35,168 #2:10,184                      L---- n#1 y168- n#0 y184;  n#9 y148
                                                   |    L---- n#0 y184  -  nil    n#1 y168
Adding p#2  x43  y324                              |    R---- n#9 y148- n#1 y168;  n#5 y238
BT start: 2 184                                    R---- n#8 y324- n#7 y311;  n#4 y184
At x: 43  Adding: e#0, X=149; n#2 y184 - y168, y324     L---- n#12 y238- n#11 y260;  n#7 y311
R----e#0 X=149; n#2 y184                               |    L---- n#11 y260- n#5 y238;  n#12 y238
End of add point:                                      |    R---- n#7 y311- n#12 y238;  n#8 y324
R---- n#1 y168- n#0 y184;  n#2 y184                    R---- n#4 y184  -  n#8 y324  nil
   L---- n#0 y184  -  nil    n#1 y168           Beach front (ID x y):
   R---- n#3 y324- n#2 y184;  n#4 y184          #0:10,184 #1:35,168 #9:218,148 #5:191,238 #11:230,260
        L---- n#2 y184- n#1 y168;  n#3 y324     #12:191,238 #7:211,311 #8:43,324 #4:10,184
        R---- n#4 y184  -  n#3 y324  nil         Priority queue:
Beach front (ID x y):                           R----e#5 X=294; n#5 y238
#0:10,184 #1:35,168 #2:10,184 #3:43,324 #4:10,184   L----e#6 X=234; n#12 y238
Priority queue:
R----e#0 X=149; n#2 y184                        At x: 234 Removing: e#6 n#12 y238  -  y260, y311

At x: 149 Removing: e#0 n#2 y184  -  y168, y324 Adding p#7  x264  y239
                                                BT start: 11 260
Adding p#3  x191  y238                          At x: 264  Adding: e#7, X=269; n#11 y260 - y238, y239
BT start: 1 168                                 R----e#5 X=294; n#5 y238
At x: 191  Adding: e#1, X=191; n#6 y168 - y238, y324   L----e#7 X=269; n#11 y260
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At x: 264  Adding: e#8, X=357; n#14 y260 - y239, y311
R----e#5 X=294; n#5 y238
    L----e#7 X=269; n#11 y260
    R----e#8 X=357; n#14 y260
End of add point:
R---- n#5 y238- n#9 y148;  n#11 y260
    L---- n#1 y168- n#0 y184;  n#9 y148
    |    L---- n#0 y184  -  nil   n#1 y168
    |    R---- n#9 y148- n#1 y168;  n#5 y238
    R---- n#8 y324- n#7 y311;  n#4 y184
        L---- n#13 y239- n#11 y260;  n#14 y260
        |   L---- n#11 y260- n#5 y238;  n#13 y239
        |   R---- n#7 y311- n#14 y260;  n#8 y324
        |       L---- n#14 y260- n#13 y239;  n#7 y311
        R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #5:191,238 #11:230,260
#13:264,239 #14:230,260 #7:211,311 #8:43,324 #4:10,184
Priority queue:
R----e#5 X=294; n#5 y238
    L----e#7 X=269; n#11 y260
    R----e#8 X=357; n#14 y260

At x: 269 Removing: e#7 n#11 y260  -  y238, y239
At x: 269  Invalid: e#5 n#5 y238
At x: 269  Adding: e#9, X=281; n#5 y238 - y148, y239
R----e#8 X=357; n#14 y260
    L----e#9 X=281; n#5 y238

Adding p#8  x272  y423
BT start: 7 311
At x: 272  Adding: e#10, X=433; n#7 y311 - y260, y423
R----e#8 X=357; n#14 y260
    L----e#9 X=281; n#5 y238
    R----e#10 X=433; n#7 y311
At x: 272  Adding: e#11, X=272; n#16 y311 - y423, y324
R----e#8 X=357; n#14 y260
    L----e#9 X=281; n#5 y238
    |   L----e#11 X=272; n#16 y311
    R----e#10 X=433; n#7 y311
End of add point:
R---- n#5 y238- n#9 y148;  n#13 y239
    L---- n#1 y168- n#0 y184;  n#9 y148
    |    L---- n#0 y184  -  nil   n#1 y168
    |    R---- n#9 y148- n#1 y168;  n#5 y238
    R---- n#7 y311- n#14 y260;  n#15 y423
        L---- n#13 y239- n#5 y238;  n#14 y260
        |   R---- n#14 y260- n#13 y239;  n#7 y311
        R---- n#8 y324- n#16 y311;  n#4 y184
            L---- n#15 y423- n#7 y311;  n#16 y311
            |   R---- n#16 y311- n#15 y423;  n#8 y324
            R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #5:191,238 #13:264,239
#14:230,260 #7:211,311 #15:272,423 #16:211,311 #8:43,324
#4:10,184
Priority queue:
R----e#8 X=357; n#14 y260
    L----e#9 X=281; n#5 y238
    |    L----e#11 X=272; n#16 y311
    R----e#10 X=433; n#7 y311

At x: 272 Removing: e#11 n#16 y311  -  y423, y324

Adding p#9  x274  y296
BT start: 7 311
At x: 274  Invalid: e#10 n#7 y311
At x: 274  Adding: e#12, X=274; n#7 y311 - y260, y296
R----e#9 X=281; n#5 y238
    L----e#12 X=274; n#7 y311
    R----e#8 X=357; n#14 y260
At x: 274  Adding: e#13, X=322; n#18 y311 - y296, y423
R----e#9 X=281; n#5 y238
    L----e#12 X=274; n#7 y311
    R----e#8 X=357; n#14 y260
        L----e#13 X=322; n#18 y311
End of add point:
R---- n#5 y238- n#9 y148;  n#13 y239
    L---- n#1 y168- n#0 y184;  n#9 y148
    |    L---- n#0 y184  -  nil   n#1 y168
    |    R---- n#9 y148- n#1 y168;  n#5 y238
    R---- n#7 y311- n#14 y260;  n#17 y296
        L---- n#13 y239- n#5 y238;  n#14 y260
        |   R---- n#14 y260- n#13 y239;  n#7 y311
        R---- n#8 y324- n#15 y423;  n#4 y184
            L---- n#18 y311- n#17 y296;  n#15 y423
            |   L---- n#17 y296- n#7 y311;  n#18 y311
            |   R---- n#15 y423- n#18 y311;  n#8 y324
            R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):


#0:10,184 #1:35,168 #9:218,148 #5:191,238 #13:264,239
#14:230,260 #7:211,311 #17:274,296 #18:211,311
#15:272,423 #8:43,324 #4:10,184
Priority queue:
R----e#9 X=281; n#5 y238
    L----e#12 X=274; n#7 y311
    R----e#8 X=357; n#14 y260
        L----e#13 X=322; n#18 y311

At x: 274 Removing: e#12 n#7 y311  -  y260, y296
At x: 274  Invalid: e#8 n#14 y260
At x: 274  Adding: e#14, X=290; n#14 y260 - y239, y296
R----e#14 X=290; n#14 y260
    L----e#9 X=281; n#5 y238
    R----e#13 X=322; n#18 y311

At x: 281 Removing: e#9 n#5 y238  -  y148, y239

Adding p#10  x284  y196
BT start: 9 148
At x: 284  Adding: e#15, X=284; n#20 y148 - y196, y239
R----e#14 X=290; n#14 y260
    L----e#15 X=284; n#20 y148
    R----e#13 X=322; n#18 y311
End of add point:
R---- n#13 y239- n#20 y148;  n#14 y260
    L---- n#1 y168- n#0 y184;  n#9 y148
    |    L---- n#0 y184  -  nil   n#1 y168
    |    R---- n#19 y196- n#9 y148;  n#20 y148
    |        L---- n#9 y148- n#1 y168;  n#19 y196
    |        R---- n#20 y148- n#19 y196;  n#13 y239
    R---- n#17 y296- n#14 y260;  n#18 y311
        L---- n#14 y260- n#13 y239;  n#17 y296
        R---- n#8 y324- n#15 y423;  n#4 y184
            L---- n#18 y311- n#17 y296;  n#15 y423
            |    R---- n#15 y423- n#18 y311;  n#8 y324
            R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #19:284,196 #20:218,148
#13:264,239 #14:230,260 #17:274,296 #18:211,311
#15:272,423 #8:43,324 #4:10,184
Priority queue:
R----e#14 X=290; n#14 y260
    L----e#15 X=284; n#20 y148
    R----e#13 X=322; n#18 y311

At x: 284 Removing: e#15 n#20 y148  -  y196, y239

At x: 290 Removing: e#14 n#14 y260  -  y239, y296
At x: 290  Adding: e#16, X=439; n#13 y239 - y196, y296
R----e#13 X=322; n#18 y311
    R----e#16 X=439; n#13 y239

Adding p#11  x301  y428
BT start: 15 423
At x: 301  Adding: e#17, X=396; n#15 y423 - y311, y428
R----e#17 X=396; n#15 y423
    L----e#13 X=322; n#18 y311
    R----e#16 X=439; n#13 y239
End of add point:
R---- n#13 y239- n#19 y196;  n#17 y296
    L---- n#1 y168- n#0 y184;  n#9 y148
    |    L---- n#0 y184  -  nil   n#1 y168
    |    R---- n#19 y196- n#9 y148;  n#13 y239
    |        L---- n#9 y148- n#1 y168;  n#19 y196
    R---- n#15 y423- n#18 y311;  n#21 y428
        L---- n#17 y296- n#13 y239;  n#18 y311
        |    R---- n#18 y311- n#17 y296;  n#15 y423
        R---- n#8 y324- n#22 y423;  n#4 y184
            L---- n#21 y428- n#15 y423;  n#22 y423
            |    R---- n#22 y423- n#21 y428;  n#8 y324
            R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #19:284,196 #13:264,239
#17:274,296 #18:211,311 #15:272,423 #21:301,428
#22:272,423 #8:43,324 #4:10,184
Priority queue:
R----e#17 X=396; n#15 y423
    L----e#13 X=322; n#18 y311
    R----e#16 X=439; n#13 y239

At x: 322 Removing: e#13 n#18 y311  -  y296, y423
At x: 322  Invalid: e#17 n#15 y423
At x: 322  Adding: e#18, X=366; n#15 y423 - y296, y428
R----e#16 X=439; n#13 y239
    L----e#18 X=366; n#15 y423

Adding p#12  x322  y192
BT start: 19 196
At x: 322  Adding: e#19, X=379; n#19 y196 - y148, y192
R----e#19 X=379; n#19 y196
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        L----e#18 X=366; n#15 y423
        R----e#16 X=439; n#13 y239
   At x: 322  Adding: e#20, X=351; n#24 y196 - y192, y239
   R----e#19 X=379; n#19 y196
        L----e#18 X=366; n#15 y423
        |    L----e#20 X=351; n#24 y196
        R----e#16 X=439; n#13 y239
   End of add point:
   R---- n#13 y239- n#24 y196;  n#17 y296
      L---- n#19 y196- n#9 y148;  n#23 y192
      |    L---- n#1 y168- n#0 y184;  n#9 y148
      |    |    L---- n#0 y184  -  nil   n#1 y168
      |    |    R---- n#9 y148- n#1 y168;  n#19 y196
      |    R---- n#23 y192- n#19 y196;  n#24 y196
      |        R---- n#24 y196- n#23 y192;  n#13 y239
      R---- n#15 y423- n#17 y296;  n#21 y428
          L---- n#17 y296- n#13 y239;  n#15 y423
          R---- n#8 y324- n#22 y423;  n#4 y184
              L---- n#21 y428- n#15 y423;  n#22 y423
              |    R---- n#22 y423- n#21 y428;  n#8 y324
              R---- n#4 y184  -  n#8 y324  nil
   Beach front (ID x y):
   #0:10,184 #1:35,168 #9:218,148 #19:284,196 #23:322,192
   #24:284,196 #13:264,239 #17:274,296 #15:272,423
   #21:301,428 #22:272,423 #8:43,324 #4:10,184
   Priority queue:
   R----e#19 X=379; n#19 y196
        L----e#18 X=366; n#15 y423
        |    L----e#20 X=351; n#24 y196
        R----e#16 X=439; n#13 y239


   At x: 351 Removing: e#20 n#24 y196  -  y192, y239
   At x: 351  Invalid: e#16 n#13 y239
   At x: 351  Adding: e#21, X=392; n#13 y239 - y192, y296
   R----e#19 X=379; n#19 y196
        L----e#18 X=366; n#15 y423
        R----e#21 X=392; n#13 y239


   Adding p#13  x357  y422
   BT start: 21 428
   At x: 357  Adding: e#22, X=468; n#21 y428 - y423, y422
   R----e#19 X=379; n#19 y196
        L----e#18 X=366; n#15 y423
        R----e#21 X=392; n#13 y239
             R----e#22 X=468; n#21 y428
   End of add point:
   R---- n#13 y239- n#23 y192;  n#17 y296
      L---- n#19 y196- n#9 y148;  n#23 y192
      |    L---- n#1 y168- n#0 y184;  n#9 y148
      |    |    L---- n#0 y184  -  nil   n#1 y168
      |    |    R---- n#9 y148- n#1 y168;  n#19 y196
      |    R---- n#23 y192- n#19 y196;  n#13 y239
      R---- n#15 y423- n#17 y296;  n#21 y428
          L---- n#17 y296- n#13 y239;  n#15 y423
          R---- n#26 y428- n#25 y422;  n#22 y423
              L---- n#21 y428- n#15 y423;  n#25 y422
              |    R---- n#25 y422- n#21 y428;  n#26 y428
              R---- n#8 y324- n#22 y423;  n#4 y184
                  L---- n#22 y423- n#26 y428;  n#8 y324
                  R---- n#4 y184  -  n#8 y324  nil
   Beach front (ID x y):
   #0:10,184 #1:35,168 #9:218,148 #19:284,196 #23:322,192
   #13:264,239 #17:274,296 #15:272,423 #21:301,428
   #25:357,422 #26:301,428 #22:272,423 #8:43,324 #4:10,184
   Priority queue:
   R----e#19 X=379; n#19 y196
        L----e#18 X=366; n#15 y423
        R----e#21 X=392; n#13 y239
             R----e#22 X=468; n#21 y428


   At x: 366 Removing: e#18 n#15 y423  -  y296, y428
   At x: 366  Adding: e#23, X=7074; n#17 y296 - y239, y428
   R----e#21 X=392; n#13 y239
        L----e#19 X=379; n#19 y196
        R----e#22 X=468; n#21 y428
             R----e#23 X=7074; n#17 y296
   At x: 366  Invalid: e#22 n#21 y428
   At x: 366  Adding: e#24, X=397; n#21 y428 - y296, y422
   R----e#21 X=392; n#13 y239
        L----e#19 X=379; n#19 y196
        R----e#23 X=7074; n#17 y296
             L----e#24 X=397; n#21 y428


   At x: 379 Removing: e#19 n#19 y196  -  y148, y192


   Adding p#14  x389  y70
   BT start: 9 148
   At x: 389  Adding: e#25, X=649; n#9 y148 - y168, y70
   R----e#24 X=397; n#21 y428
        L----e#21 X=392; n#13 y239
        R----e#23 X=7074; n#17 y296
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             L----e#25 X=649; n#9 y148
   At x: 389  Adding: e#26, X=394; n#28 y148 - y70, y192
   R----e#24 X=397; n#21 y428
        L----e#21 X=392; n#13 y239
        |    R----e#26 X=394; n#28 y148
        R----e#23 X=7074; n#17 y296
             L----e#25 X=649; n#9 y148
   End of add point:
   R---- n#13 y239- n#23 y192;  n#17 y296
      L---- n#1 y168- n#0 y184;  n#9 y148
      |    L---- n#0 y184  -  nil   n#1 y168
      |    R---- n#27 y70- n#9 y148;  n#28 y148
      |        L---- n#9 y148- n#1 y168;  n#27 y70
      |        R---- n#23 y192- n#28 y148;  n#13 y239
      |            L---- n#28 y148- n#27 y70;  n#23 y192
      R---- n#21 y428- n#17 y296;  n#25 y422
          L---- n#17 y296- n#13 y239;  n#21 y428
          R---- n#26 y428- n#25 y422;  n#22 y423
              L---- n#25 y422- n#21 y428;  n#26 y428
              R---- n#8 y324- n#22 y423;  n#4 y184
                  L---- n#22 y423- n#26 y428;  n#8 y324
                  R---- n#4 y184  -  n#8 y324  nil
   Beach front (ID x y):
   #0:10,184 #1:35,168 #9:218,148 #27:389,70 #28:218,148
   #23:322,192 #13:264,239 #17:274,296 #21:301,428
   #25:357,422 #26:301,428 #22:272,423 #8:43,324 #4:10,184
   Priority queue:
   R----e#24 X=397; n#21 y428
        L----e#21 X=392; n#13 y239
        |    R----e#26 X=394; n#28 y148
        R----e#23 X=7074; n#17 y296
             L----e#25 X=649; n#9 y148


   Adding p#15  x390  y339
   BT start: 17 296
   At x: 390  Invalid: e#23 n#17 y296
   At x: 390  Adding: e#27, X=449; n#17 y296 - y239, y339
   R----e#24 X=397; n#21 y428
        L----e#21 X=392; n#13 y239
        |    R----e#26 X=394; n#28 y148
        R----e#25 X=649; n#9 y148
             L----e#27 X=449; n#17 y296
   At x: 390  Adding: e#28, X=392; n#30 y296 - y339, y428
   R----e#24 X=397; n#21 y428
        L----e#21 X=392; n#13 y239
        |    L----e#28 X=392; n#30 y296
        |    R----e#26 X=394; n#28 y148
        R----e#25 X=649; n#9 y148
             L----e#27 X=449; n#17 y296
   End of add point:
   R---- n#13 y239- n#23 y192;  n#17 y296
      L---- n#1 y168- n#0 y184;  n#9 y148
      |    L---- n#0 y184  -  nil   n#1 y168
      |    R---- n#27 y70- n#9 y148;  n#28 y148
      |        L---- n#9 y148- n#1 y168;  n#27 y70
      |        R---- n#23 y192- n#28 y148;  n#13 y239
      |            L---- n#28 y148- n#27 y70;  n#23 y192
      R---- n#21 y428- n#30 y296;  n#25 y422
          L---- n#29 y339- n#17 y296;  n#30 y296
          |    L---- n#17 y296- n#13 y239;  n#29 y339
          |    R---- n#30 y296- n#29 y339;  n#21 y428
          R---- n#26 y428- n#25 y422;  n#22 y423
              L---- n#25 y422- n#21 y428;  n#26 y428
              R---- n#8 y324- n#22 y423;  n#4 y184
                  L---- n#22 y423- n#26 y428;  n#8 y324
                  R---- n#4 y184  -  n#8 y324  nil
   Beach front (ID x y):
   #0:10,184 #1:35,168 #9:218,148 #27:389,70 #28:218,148
   #23:322,192 #13:264,239 #17:274,296 #29:390,339
   #30:274,296 #21:301,428 #25:357,422 #26:301,428
   #22:272,423 #8:43,324 #4:10,184
   Priority queue:
   R----e#24 X=397; n#21 y428
        L----e#21 X=392; n#13 y239
        |    L----e#28 X=392; n#30 y296
        |    R----e#26 X=394; n#28 y148
        R----e#25 X=649; n#9 y148
             L----e#27 X=449; n#17 y296


   At x: 392 Removing: e#28 n#30 y296  -  y339, y428
   At x: 392  Invalid: e#24 n#21 y428
   At x: 392  Adding: e#29, X=393; n#21 y428 - y339, y422
   R----e#27 X=449; n#17 y296
        L----e#29 X=393; n#21 y428
        |    L----e#21 X=392; n#13 y239
        |    R----e#26 X=394; n#28 y148
        R----e#25 X=649; n#9 y148


   At x: 392 Removing: e#21 n#13 y239  -  y192, y296
   At x: 392  Invalid: e#27 n#17 y296
   At x: 392  Adding: e#30, X=432; n#17 y296 - y192, y339
```

```
R----e#26 X=394; n#28 y148
    L----e#29 X=393; n#21 y428
    R----e#25 X=649; n#9 y148
        L----e#30 X=432; n#17 y296

At x: 393 Removing: e#29 n#21 y428  -  y339, y422

At x: 394 Removing: e#26 n#28 y148  -  y70, y192
At x: 394  Adding: e#31, X=3765; n#23 y192 - y70, y296
R----e#25 X=649; n#9 y148
    L----e#30 X=432; n#17 y296
    R----e#31 X=3765; n#23 y192

Adding p#16  x395  y406
BT start: 25 422
At x: 395  Adding: e#32, X=407; n#25 y422 - y339, y406
R----e#25 X=649; n#9 y148
    L----e#30 X=432; n#17 y296
    |   L----e#32 X=407; n#25 y422
    R----e#31 X=3765; n#23 y192
End of add point:
R---- n#17 y296- n#23 y192;  n#29 y339
    L---- n#1 y168- n#0 y184;  n#9 y148
    |   L---- n#0 y184  -  nil   n#1 y168
    |   R---- n#27 y70- n#9 y148;  n#23 y192
    |       L---- n#9 y148- n#1 y168;  n#27 y70
    |       R---- n#23 y192- n#27 y70;  n#17 y296
    R---- n#25 y422- n#29 y339;  n#31 y406
        L---- n#29 y339- n#17 y296;  n#25 y422
        R---- n#26 y428- n#32 y422;  n#22 y423
            L---- n#31 y406- n#25 y422;  n#32 y422
            |   R---- n#32 y422- n#31 y406;  n#26 y428
            R---- n#8 y324- n#22 y423;  n#4 y184
                L---- n#22 y423- n#26 y428;  n#8 y324
                R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #27:389,70 #23:322,192
#17:274,296 #29:390,339 #25:357,422 #31:395,406
#32:357,422 #26:301,428 #22:272,423 #8:43,324 #4:10,184
Priority queue:
R----e#25 X=649; n#9 y148
    L----e#30 X=432; n#17 y296
    |   L----e#32 X=407; n#25 y422
    R----e#31 X=3765; n#23 y192

Adding p#17  x399  y400
BT start: 31 406
At x: 399  Adding: e#33, X=404; n#31 y406 - y422, y400
R----e#25 X=649; n#9 y148
    L----e#32 X=407; n#25 y422
    |   L----e#33 X=404; n#31 y406
    |   R----e#30 X=432; n#17 y296
    R----e#31 X=3765; n#23 y192
End of add point:
R---- n#17 y296- n#23 y192;  n#29 y339
    L---- n#1 y168- n#0 y184;  n#9 y148
    |   L---- n#0 y184  -  nil   n#1 y168
    |   R---- n#27 y70- n#9 y148;  n#23 y192
    |       L---- n#9 y148- n#1 y168;  n#27 y70
    |       R---- n#23 y192- n#27 y70;  n#17 y296
    R---- n#34 y406- n#33 y400;  n#32 y422
        L---- n#25 y422- n#29 y339;  n#31 y406
        |   L---- n#29 y339- n#17 y296;  n#25 y422
        |   R---- n#31 y406- n#25 y422;  n#33 y400
        |       R---- n#33 y400- n#31 y406;  n#34 y406
        R---- n#26 y428- n#32 y422;  n#22 y423
            L---- n#32 y422- n#34 y406;  n#26 y428
            R---- n#8 y324- n#22 y423;  n#4 y184
                L---- n#22 y423- n#26 y428;  n#8 y324
                R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #27:389,70 #23:322,192
#17:274,296 #29:390,339 #25:357,422 #31:395,406
#33:399,400 #34:395,406 #32:357,422 #26:301,428
#22:272,423 #8:43,324 #4:10,184
Priority queue:
R----e#25 X=649; n#9 y148
    L----e#32 X=407; n#25 y422
    |   L----e#33 X=404; n#31 y406
    |   R----e#30 X=432; n#17 y296
    R----e#31 X=3765; n#23 y192

At x: 404 Removing: e#33 n#31 y406  -  y422, y400
At x: 404  Invalid: e#32 n#25 y422
At x: 404  Adding: e#34, X=406; n#25 y422 - y339, y400
R----e#25 X=649; n#9 y148
    L----e#30 X=432; n#17 y296
    |   L----e#34 X=406; n#25 y422
    R----e#31 X=3765; n#23 y192

At x: 406 Removing: e#34 n#25 y422  -  y339, y400
```

```
Adding p#18  x416  y478
BT start: 32 422
At x: 416  Adding: e#35, X=431; n#32 y422 - y406, y478
R----e#25 X=649; n#9 y148
    L----e#30 X=432; n#17 y296
    |   L----e#35 X=431; n#32 y422
    R----e#31 X=3765; n#23 y192
At x: 416  Adding: e#36, X=420; n#36 y422 - y478, y428
R----e#25 X=649; n#9 y148
    L----e#35 X=431; n#32 y422
    |   L----e#36 X=420; n#36 y422
    |   R----e#30 X=432; n#17 y296
    R----e#31 X=3765; n#23 y192
End of add point:
R---- n#17 y296- n#23 y192;  n#29 y339
    L---- n#1 y168- n#0 y184;  n#9 y148
    |   L---- n#0 y184  -  nil   n#1 y168
    |   R---- n#27 y70- n#9 y148;  n#23 y192
    |       L---- n#9 y148- n#1 y168;  n#27 y70
    |       R---- n#23 y192- n#27 y70;  n#17 y296
    R---- n#34 y406- n#33 y400;  n#32 y422
        L---- n#29 y339- n#17 y296;  n#33 y400
        |   R---- n#33 y400- n#29 y339;  n#34 y406
        R---- n#26 y428- n#36 y422;  n#22 y423
            L---- n#35 y478- n#32 y422;  n#36 y422
            |   L---- n#32 y422- n#34 y406;  n#35 y478
            |   R---- n#36 y422- n#35 y478;  n#26 y428
            R---- n#8 y324- n#22 y423;  n#4 y184
                L---- n#22 y423- n#26 y428;  n#8 y324
                R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #27:389,70 #23:322,192
#17:274,296 #29:390,339 #33:399,400 #34:395,406
#32:357,422 #35:416,478 #36:357,422 #26:301,428
#22:272,423 #8:43,324 #4:10,184
Priority queue:
R----e#25 X=649; n#9 y148
    L----e#35 X=431; n#32 y422
    |   L----e#36 X=420; n#36 y422
    |   R----e#30 X=432; n#17 y296
    R----e#31 X=3765; n#23 y192

At x: 420 Removing: e#36 n#36 y422  -  y478, y428
At x: 420  Adding: e#37, X=556; n#26 y428 - y478, y423
R----e#25 X=649; n#9 y148
    L----e#30 X=432; n#17 y296
    |   L----e#35 X=431; n#32 y422
    |   R----e#37 X=556; n#26 y428
    R----e#31 X=3765; n#23 y192

At x: 431 Removing: e#35 n#32 y422  -  y406, y478
At x: 431  Adding: e#38, X=492; n#34 y406 - y400, y478
R----e#25 X=649; n#9 y148
    L----e#38 X=492; n#34 y406
    |   L----e#30 X=432; n#17 y296
    |   R----e#37 X=556; n#26 y428
    R----e#31 X=3765; n#23 y192

At x: 432 Removing: e#30 n#17 y296  -  y192, y339
At x: 432  Invalid: e#31 n#23 y192
At x: 432  Adding: e#39, X=656; n#23 y192 - y70, y339
R----e#37 X=556; n#26 y428
    L----e#38 X=492; n#34 y406
    R----e#25 X=649; n#9 y148
        R----e#39 X=656; n#23 y192

Adding p#19  x435  y435
BT start: 34 406
At x: 435  Invalid: e#38 n#34 y406
At x: 435  Adding: e#40, X=443; n#34 y406 - y400, y435
R----e#25 X=649; n#9 y148
    L----e#37 X=556; n#26 y428
    |   L----e#40 X=443; n#34 y406
    R----e#39 X=656; n#23 y192
At x: 435  Adding: e#41, X=436; n#38 y406 - y435, y478
R----e#25 X=649; n#9 y148
    L----e#40 X=443; n#34 y406
    |   L----e#41 X=436; n#38 y406
    |   R----e#37 X=556; n#26 y428
    R----e#39 X=656; n#23 y192
End of add point:
R---- n#29 y339- n#23 y192;  n#33 y400
    L---- n#1 y168- n#0 y184;  n#9 y148
    |   L---- n#0 y184  -  nil   n#1 y168
    |   R---- n#27 y70- n#9 y148;  n#23 y192
    |       L---- n#9 y148- n#1 y168;  n#27 y70
    |       R---- n#23 y192- n#27 y70;  n#29 y339
    R---- n#26 y428- n#35 y478;  n#22 y423
        L---- n#34 y406- n#33 y400;  n#37 y435
        |   L---- n#33 y400- n#29 y339;  n#34 y406
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```
            |     R---- n#38 y406- n#37 y435;  n#35 y478
            |       L---- n#37 y435- n#34 y406;  n#38 y406
            |         R---- n#35 y478- n#38 y406;  n#26 y428
          R---- n#8 y324- n#22 y423;  n#4 y184
            L---- n#22 y423- n#26 y428;  n#8 y324
              R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #27:389,70 #23:322,192
#29:390,339 #33:399,400 #34:395,406 #37:435,435
#38:395,406 #35:416,478 #26:301,428 #22:272,423 #8:43,324
#4:10,184
Priority queue:
R----e#25 X=649; n#9 y148
    L----e#40 X=443; n#34 y406
    |   L----e#41 X=436; n#38 y406
    |   R----e#37 X=556; n#26 y428
    R----e#39 X=656; n#23 y192

At x: 436 Removing: e#41 n#38 y406  -  y435, y478

At x: 443 Removing: e#40 n#34 y406  -  y400, y435
At x: 443  Adding: e#42, X=563; n#33 y400 - y339, y435
R----e#25 X=649; n#9 y148
    L----e#37 X=556; n#26 y428
    |   R----e#42 X=563; n#33 y400
    R----e#39 X=656; n#23 y192

Adding p#20  x445  y28
BT start: 27 70
At x: 445  Adding: e#43, X=658; n#27 y70 - y148, y28
R----e#25 X=649; n#9 y148
    L----e#37 X=556; n#26 y428
    |   R----e#42 X=563; n#33 y400
    R----e#39 X=656; n#23 y192
        R----e#43 X=658; n#27 y70
At x: 445  Adding: e#44, X=813; n#40 y70 - y28, y192
R----e#25 X=649; n#9 y148
    L----e#37 X=556; n#26 y428
    |   R----e#42 X=563; n#33 y400
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192
        R----e#44 X=813; n#40 y70
End of add point:
R---- n#29 y339- n#23 y192;  n#33 y400
    L---- n#27 y70- n#9 y148;  n#39 y28
    |   L---- n#1 y168- n#0 y184;  n#9 y148
    |   |   L---- n#0 y184  -  nil   n#1 y168
    |   |   R---- n#9 y148- n#1 y168;  n#27 y70
    |   R---- n#40 y70- n#39 y28;  n#23 y192
    |       L---- n#39 y28- n#27 y70;  n#40 y70
    |       R---- n#23 y192- n#40 y70;  n#29 y339
    R---- n#26 y428- n#35 y478;  n#22 y423
        L---- n#37 y435- n#33 y400;  n#35 y478
        |   L---- n#33 y400- n#29 y339;  n#37 y435
        |   R---- n#35 y478- n#37 y435;  n#26 y428
        R---- n#8 y324- n#22 y423;  n#4 y184
            L---- n#22 y423- n#26 y428;  n#8 y324
            R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #27:389,70 #39:445,28
#40:389,70 #23:322,192 #29:390,339 #33:399,400
#37:435,435 #35:416,478 #26:301,428 #22:272,423 #8:43,324
#4:10,184
Priority queue:
R----e#25 X=649; n#9 y148
    L----e#37 X=556; n#26 y428
    |   R----e#42 X=563; n#33 y400
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192
        R----e#44 X=813; n#40 y70

Adding p#21  x462  y418
BT start: 37 435
At x: 462  Adding: e#45, X=466; n#37 y435 - y400, y418
R----e#25 X=649; n#9 y148
    L----e#37 X=556; n#26 y428
    |   L----e#45 X=466; n#37 y435
    |   R----e#42 X=563; n#33 y400
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192
        R----e#44 X=813; n#40 y70
At x: 462  Adding: e#46, X=551; n#42 y435 - y418, y478
R----e#25 X=649; n#9 y148
    L----e#37 X=556; n#26 y428
    |   L----e#45 X=466; n#37 y435
    |   |   R----e#46 X=551; n#42 y435
    |   R----e#42 X=563; n#33 y400
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192
        R----e#44 X=813; n#40 y70
End of add point:


R---- n#29 y339- n#23 y192;  n#33 y400
    L---- n#27 y70- n#9 y148;  n#39 y28
    |   L---- n#1 y168- n#0 y184;  n#9 y148
    |   |   L---- n#0 y184  -  nil   n#1 y168
    |   |   R---- n#9 y148- n#1 y168;  n#27 y70
    |   R---- n#40 y70- n#39 y28;  n#23 y192
    |       L---- n#39 y28- n#27 y70;  n#40 y70
    |       R---- n#23 y192- n#40 y70;  n#29 y339
    R---- n#26 y428- n#35 y478;  n#22 y423
        L---- n#37 y435- n#33 y400;  n#41 y418
        |   L---- n#33 y400- n#29 y339;  n#37 y435
        |   R---- n#42 y435- n#41 y418;  n#35 y478
        |       L---- n#41 y418- n#37 y435;  n#42 y435
        |       R---- n#35 y478- n#42 y435;  n#26 y428
        R---- n#8 y324- n#22 y423;  n#4 y184
            L---- n#22 y423- n#26 y428;  n#8 y324
            R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #27:389,70 #39:445,28
#40:389,70 #23:322,192 #29:390,339 #33:399,400
#37:435,435 #41:462,418 #42:435,435 #35:416,478
#26:301,428 #22:272,423 #8:43,324 #4:10,184
Priority queue:
R----e#25 X=649; n#9 y148
    L----e#37 X=556; n#26 y428
    |   L----e#45 X=466; n#37 y435
    |   |   R----e#46 X=551; n#42 y435
    |   R----e#42 X=563; n#33 y400
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192
        R----e#44 X=813; n#40 y70

At x: 466 Removing: e#45 n#37 y435  -  y400, y418
At x: 466  Invalid: e#42 n#33 y400
At x: 466  Adding: e#47, X=503; n#33 y400 - y339, y418
R----e#25 X=649; n#9 y148
    L----e#46 X=551; n#42 y435
    |   L----e#47 X=503; n#33 y400
    |   R----e#37 X=556; n#26 y428
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192
        R----e#44 X=813; n#40 y70

Adding p#22  x481  y136
BT start: 40 70
At x: 481  Invalid: e#44 n#40 y70
At x: 481  Adding: e#48, X=506; n#40 y70 - y28, y136
R----e#25 X=649; n#9 y148
    L----e#46 X=551; n#42 y435
    |   L----e#47 X=503; n#33 y400
    |   |   R----e#48 X=506; n#40 y70
    |   R----e#37 X=556; n#26 y428
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192
At x: 481  Adding: e#49, X=483; n#44 y70 - y136, y192
R----e#25 X=649; n#9 y148
    L----e#46 X=551; n#42 y435
    |   L----e#47 X=503; n#33 y400
    |   |   L----e#49 X=483; n#44 y70
    |   |   R----e#48 X=506; n#40 y70
    |   R----e#37 X=556; n#26 y428
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192
End of add point:
R---- n#29 y339- n#23 y192;  n#33 y400
    L---- n#27 y70- n#9 y148;  n#39 y28
    |   L---- n#1 y168- n#0 y184;  n#9 y148
    |   |   L---- n#0 y184  -  nil   n#1 y168
    |   |   R---- n#9 y148- n#1 y168;  n#27 y70
    |   R---- n#40 y70- n#39 y28;  n#43 y136
    |       L---- n#39 y28- n#27 y70;  n#40 y70
    |       R---- n#44 y70- n#43 y136;  n#23 y192
    |           L---- n#43 y136- n#40 y70;  n#44 y70
    |           R---- n#23 y192- n#44 y70;  n#29 y339
    R---- n#26 y428- n#35 y478;  n#22 y423
        L---- n#41 y418- n#33 y400;  n#42 y435
        |   L---- n#33 y400- n#29 y339;  n#41 y418
        |   R---- n#42 y435- n#41 y418;  n#35 y478
        |       R---- n#35 y478- n#42 y435;  n#26 y428
        R---- n#8 y324- n#22 y423;  n#4 y184
            L---- n#22 y423- n#26 y428;  n#8 y324
            R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):
#0:10,184 #1:35,168 #9:218,148 #27:389,70 #39:445,28
#40:389,70 #43:481,136 #44:389,70 #23:322,192 #29:390,339
#33:399,400 #41:462,418 #42:435,435 #35:416,478
#26:301,428 #22:272,423 #8:43,324 #4:10,184
Priority queue:
R----e#25 X=649; n#9 y148
    L----e#46 X=551; n#42 y435
    |   L----e#47 X=503; n#33 y400
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    |    |    L----e#49 X=483; n#44 y70                         L----e#37 X=556; n#26 y428
    |    |    R----e#48 X=506; n#40 y70                         |    R----e#53 X=626; n#29 y339
    |    R----e#37 X=556; n#26 y428                         R----e#43 X=658; n#27 y70
    R----e#43 X=658; n#27 y70
        L----e#39 X=656; n#23 y192                  At x: 501 Removing: e#51 n#23 y192  -  y136, y236
                                                    Priority queue
At x: 483 Removing: e#49 n#44 y70  -  y136, y192   R----e#46 X=551; n#42 y435
At x: 483  Invalid: e#39 n#23 y192                     L----e#47 X=503; n#33 y400
At x: 483  Adding: e#50, X=538; n#23 y192 - y136, y339    |    R----e#48 X=506; n#40 y70
R----e#46 X=551; n#42 y435                             R----e#25 X=649; n#9 y148
    L----e#48 X=506; n#40 y70                              L----e#37 X=556; n#26 y428
    |    L----e#47 X=503; n#33 y400                        |    R----e#53 X=626; n#29 y339
    |    R----e#50 X=538; n#23 y192                        R----e#43 X=658; n#27 y70
    R----e#25 X=649; n#9 y148
        L----e#37 X=556; n#26 y428                  At x: 503 Removing: e#47 n#33 y400  -  y339, y418
        R----e#43 X=658; n#27 y70                   At x: 503  Invalid: e#53 n#29 y339
                                                    At x: 503  Adding: e#54, X=574; n#29 y339 - y236, y418
Adding p#23   x489   y236                           R----e#37 X=556; n#26 y428
BT start: 23 192                                        L----e#46 X=551; n#42 y435
At x: 489  Invalid: e#50 n#23 y192                     |    L----e#48 X=506; n#40 y70
At x: 489  Adding: e#51, X=501; n#23 y192 - y136, y236    R----e#25 X=649; n#9 y148
R----e#46 X=551; n#42 y435                                 L----e#54 X=574; n#29 y339
    L----e#47 X=503; n#33 y400                             R----e#43 X=658; n#27 y70
    |    L----e#51 X=501; n#23 y192                  Priority queue
    |    R----e#48 X=506; n#40 y70                   R----e#37 X=556; n#26 y428
    R----e#25 X=649; n#9 y148                            L----e#46 X=551; n#42 y435
        L----e#37 X=556; n#26 y428                       |    L----e#48 X=506; n#40 y70
        R----e#43 X=658; n#27 y70                        R----e#25 X=649; n#9 y148
At x: 489  Adding: e#52, X=490; n#46 y192 - y236, y339        L----e#54 X=574; n#29 y339
R----e#46 X=551; n#42 y435                                   R----e#43 X=658; n#27 y70
    L----e#47 X=503; n#33 y400
    |    L----e#51 X=501; n#23 y192                  At x: 506 Removing: e#48 n#40 y70  -  y28, y136
    |    |    L----e#52 X=490; n#46 y192             Priority queue
    |    R----e#48 X=506; n#40 y70                   R----e#37 X=556; n#26 y428
    R----e#25 X=649; n#9 y148                            L----e#46 X=551; n#42 y435
        L----e#37 X=556; n#26 y428                       R----e#25 X=649; n#9 y148
        R----e#43 X=658; n#27 y70                            L----e#54 X=574; n#29 y339
End of add point:                                            R----e#43 X=658; n#27 y70
R---- n#29 y339- n#46 y192;  n#33 y400
    L---- n#27 y70- n#9 y148;  n#39 y28            At x: 551 Removing: e#46 n#42 y435  -  y418, y478
    |    L---- n#1 y168- n#0 y184;  n#9 y148       Priority queue
    |    |    L---- n#0 y184  -  nil   n#1 y168     R----e#25 X=649; n#9 y148
    |    |    R---- n#9 y148- n#1 y168;  n#27 y70       L----e#37 X=556; n#26 y428
    |    R---- n#23 y192- n#43 y136;  n#45 y236         |    R----e#54 X=574; n#29 y339
    |        L---- n#40 y70- n#39 y28;  n#43 y136       R----e#43 X=658; n#27 y70
    |        |    L---- n#39 y28- n#27 y70;  n#40 y70
    |        |    R---- n#43 y136- n#40 y70;  n#23 y192  At x: 556 Removing: e#37 n#26 y428  -  y478, y423
    |        R---- n#45 y236- n#23 y192;  n#46 y192     Priority queue
    |            R---- n#46 y192- n#45 y236;  n#29 y339  R----e#25 X=649; n#9 y148
    R---- n#26 y428- n#35 y478;  n#22 y423                 L----e#54 X=574; n#29 y339
        L---- n#41 y418- n#33 y400;  n#42 y435            R----e#43 X=658; n#27 y70
        |    L---- n#33 y400- n#29 y339;  n#41 y418
        |    R---- n#42 y435- n#41 y418;  n#35 y478  At x: 574 Removing: e#54 n#29 y339  -  y236, y418
        |        R---- n#35 y478- n#42 y435;  n#26 y428  Priority queue
        R---- n#8 y324- n#22 y423;  n#4 y184        R----e#25 X=649; n#9 y148
            L---- n#22 y423- n#26 y428;  n#8 y324       R----e#43 X=658; n#27 y70
            R---- n#4 y184  -  n#8 y324  nil
Beach front (ID x y):                               At x: 649 Removing: e#25 n#9 y148  -  y168, y70
#0:10,184 #1:35,168 #9:218,148 #27:389,70 #39:445,28  At x: 649  Invalid: e#43 n#27 y70
#40:389,70 #43:481,136 #23:322,192 #45:489,236      At x: 649  Adding: e#55, X=655; n#27 y70 - y168, y28
#46:322,192 #29:390,339 #33:399,400 #41:462,418     R----e#55 X=655; n#27 y70
#42:435,435 #35:416,478 #26:301,428 #22:272,423 #8:43,324  Priority queue
#4:10,184                                           R----e#55 X=655; n#27 y70
Priority queue:
R----e#46 X=551; n#42 y435                          At x: 655 Removing: e#55 n#27 y70  -  y168, y28
    L----e#47 X=503; n#33 y400                      Empty queue
    |    L----e#51 X=501; n#23 y192
    |    |    L----e#52 X=490; n#46 y192            Approx elapsed time: 1 ms
    |    R----e#48 X=506; n#40 y70                   Segments: 60
    R----e#25 X=649; n#9 y148                        Number of priority queue records created: 56
        L----e#37 X=556; n#26 y428                   Max BF count: 19
        R----e#43 X=658; n#27 y70                    Max BF depth: 6
                                                    Max PQ count: 8
Processing remaining circle events                  Max PQ depth: 4

At x: 490 Removing: e#52 n#46 y192  -  y236, y339   Generating Graham scan hull:
At x: 490  Adding: e#53, X=626; n#29 y339 - y236, y400  Graham scan hull:
R----e#46 X=551; n#42 y435                          20 1 0 2 8 18 21 23 22
    L----e#47 X=503; n#33 y400
    |    L----e#51 X=501; n#23 y192                  Voronoi hull:
    |    R----e#48 X=506; n#40 y70                   20 1 0 2 8 18 21 23 22
    R----e#25 X=649; n#9 y148                        _____
        L----e#37 X=556; n#26 y428
        |    R----e#53 X=626; n#29 y339
        R----e#43 X=658; n#27 y70
Priority queue
R----e#46 X=551; n#42 y435
    L----e#47 X=503; n#33 y400
    |    L----e#51 X=501; n#23 y192
    |    R----e#48 X=506; n#40 y70
    R----e#25 X=649; n#9 y148
```