Data set TROUSERS

Instance	Number of different pieces	Total number of pieces	Vertices by piece (average)	Feasible orientations (degrees)	Plate width
TROUSERS	17	64	5.06	0 and 180	79

```
PIECE 1
QUANTITY
8
NUMBER OF VERTICES
11
VERTICES (X,Y)
 0   0
12  -1
14  -3
24   0
33   1
59   2
59  13
 4  13
 4   8
 2   5
 0   5

PIECE 2
QUANTITY
8
NUMBER OF VERTICES
8
VERTICES (X,Y)
 0   0
 0 -14
27 -17
37 -20
41 -22
47 -19
56 -16
56   0

PIECE 3
QUANTITY
1
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
57   0
57   5
 0   5
```

```
PIECE 4
QUANTITY
1
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
52   0
52   5
 0   5

PIECE 5
QUANTITY
1
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
44   0
44   5
 0   5

PIECE 6
QUANTITY
1
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
42   0
42   5
 0   5

PIECE 7
QUANTITY
8
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
21   0
21   2
```

```
 0   2
PIECE 8
QUANTITY
8
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
15   4
13   7
 0   6

PIECE 9
QUANTITY
1
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
15   1
15   4
 0   4

PIECE 10
QUANTITY
1
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
14   0
14   5
 0   5

PIECE 11
QUANTITY
1
NUMBER OF VERTICES
4
VERTICES (X,Y)
 0   0
14   1
```

```
14    4                    QUANTITY                   8
 0    4                    2                          NUMBER OF VERTICES
                           NUMBER OF VERTICES         5
PIECE 12                   4                          VERTICES (X,Y)
QUANTITY                   VERTICES (X,Y)              0    0
1                           0    0                     3   -2
NUMBER OF VERTICES         12    0                     8    0
4                          12    5                     8    8
VERTICES (X,Y)              0    5                     2    8
 0    0
13    0                    PIECE 15                   PIECE 17
13    5                    QUANTITY                   QUANTITY
 0    5                    8                          4
                           NUMBER OF VERTICES         NUMBER OF VERTICES
PIECE 13                   7                          7
QUANTITY                   VERTICES (X,Y)             VERTICES (X,Y)
2                           0    0                     0    0
NUMBER OF VERTICES          4    2                     2    1
4                           6   10                     3    6
VERTICES (X,Y)              4   11                     2    7
 0    0                    -4   11                    -2    7
13    1                    -6   10                    -3    6
13    4                    -4    2                    -2    1
 0    4
                           PIECE 16
PIECE 14                   QUANTITY
```
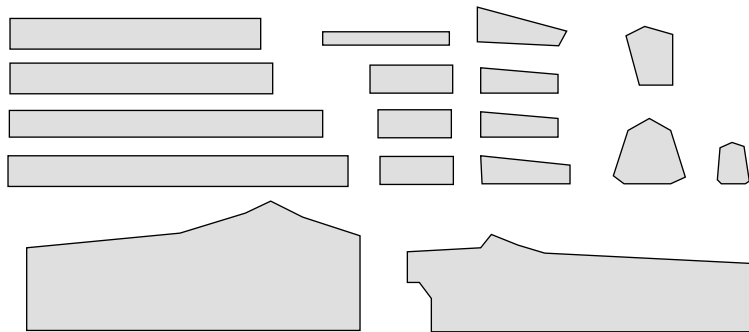

Figure 1: Data set: TROUSERS

References

Oliveira, J.F., Gomes, A.M. and Ferreira, J.S., A new constructive algorithm for nesting prolems, OR Spektrum (2000) 22: 263-284.