

Test Problems for Irregular Packing: THREE

Reference: Alvarez-Valdes et. al (2013);
Shapes: Convex polygons.

Table 1: Description of the instances

Instance	Number of different pieces	Quantity of pieces of each type			Feasible orientations	Plate width
		Piece 1	Piece 2	Piece 3		
THREE	3	1	1	1	0	7
THREEp2	3	2	2	2	0	7
THREEp2w9	3	2	2	2	0	9
THREEp3	3	3	3	3	0	7
THREEp3w9	3	3	3	3	0	9

Piece 1	Piece 2	Piece 3
NUMBER OF VERTICES	NUMBER OF VERTICES	NUMBER OF VERTICES
4	4	3
VERTICES (X,Y)	VERTICES (X,Y)	VERTICES (X,Y)
0 0	0 0	0 0
2 -2	0 -3	4 0
4 0	3 -3	2 3
2 2	3 0	

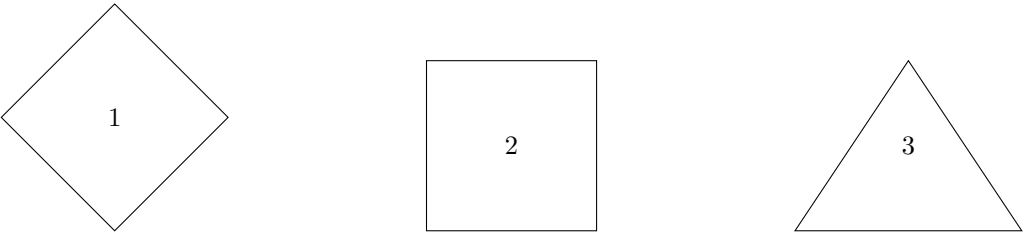


Figure 1: Pieces in THREE instances.

References

Alvarez-Valdes, R., A. Martinez, and J. Tamarit (2013). A branch & bound algorithm for cutting and packing irregularly shaped pieces. *International Journal of Production Economics* 145 (2), 463 – 477.