${\bf ClassName:}~{\bf Class_09.2bp\text{-}30}$

BinSize: $\underline{100 \times 100}$ ReduceSize: $\underline{100 \times 100}$

TypeNum: <u>79</u> Num: <u>80</u> OutS: <u>590000</u> InS: <u>350912</u> Rate: <u>0.595</u> UB: <u>59</u> LB0: <u>59</u>

LBWithCut: $\underline{\mathbf{59}}$ NodeCut: $\underline{\mathbf{0}}$

LB: **59**

ExtendedNodeCnt: $\underline{\mathbf{1}}$

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{59}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: $\underline{\mathbf{true}}$

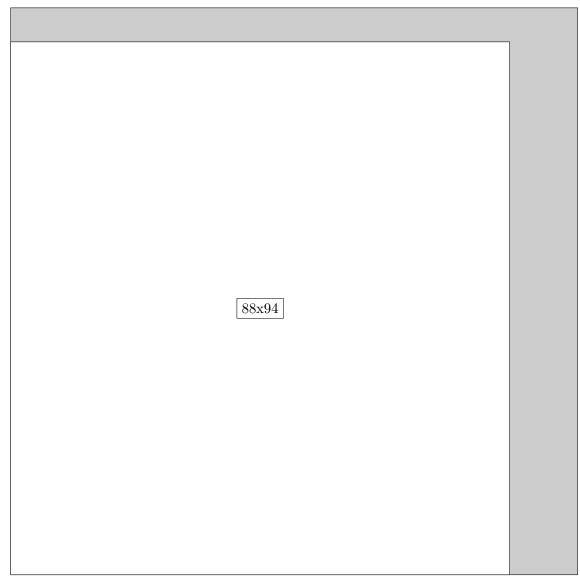
 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.290 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.063 \ s} \\ {\rm TotalTime:} \ \underline{0.415 \ s} \\ \end{array}$



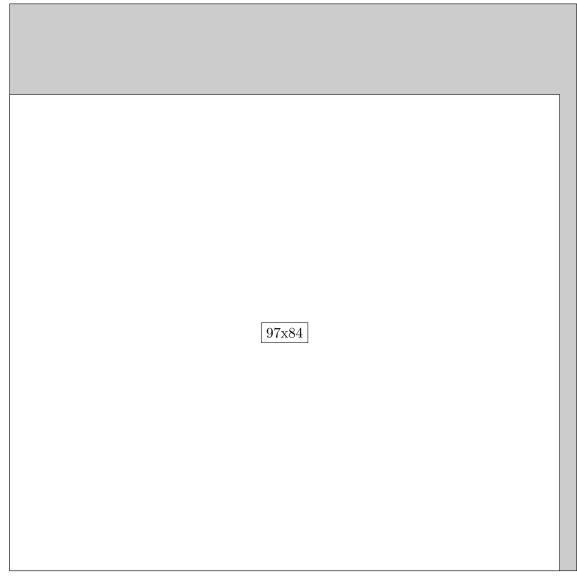
 $\le =89$, h =95 , x =0 , y =0 , v = 8455



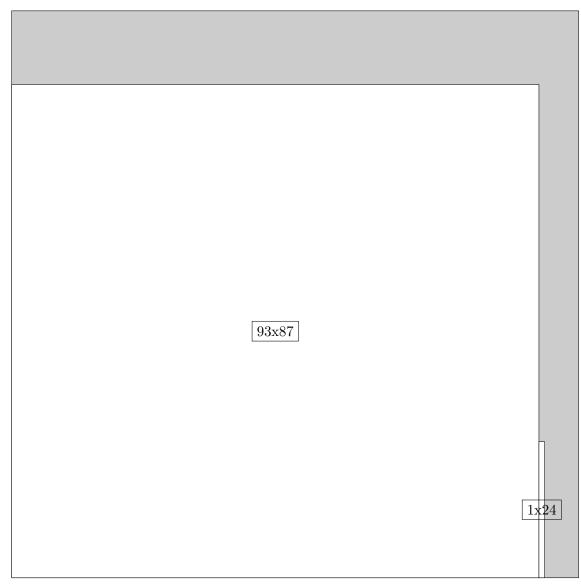
 $\le =89$, h =95 , x =0 , y =0 , v = 8455



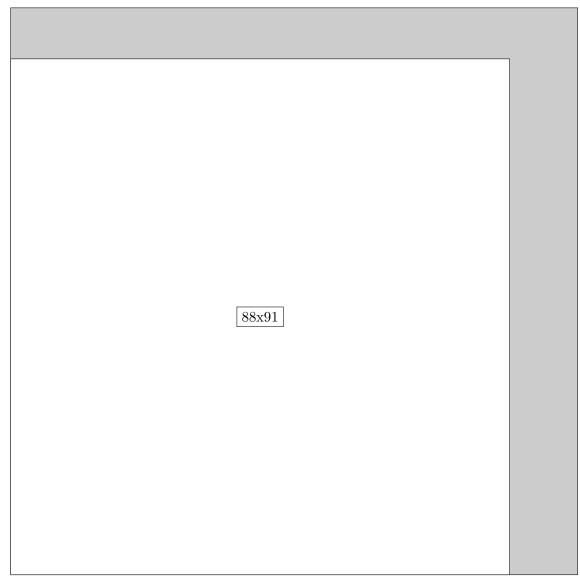
 $\le =88$, h =94 , x =0 , y =0 , v =8272



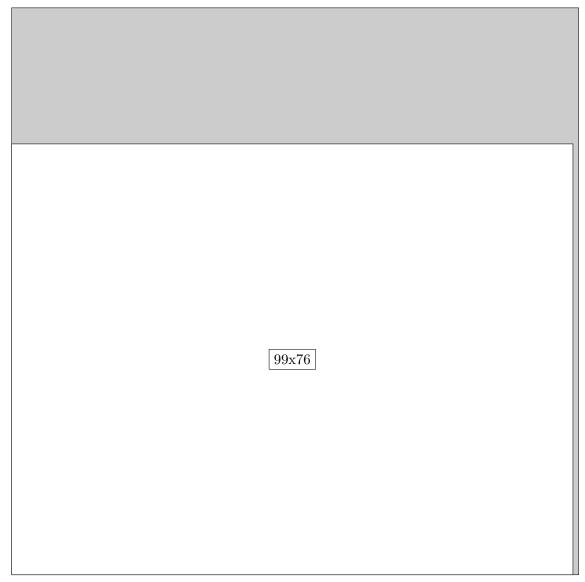
w = 97, h = 84, x = 0, y = 0, v = 8148



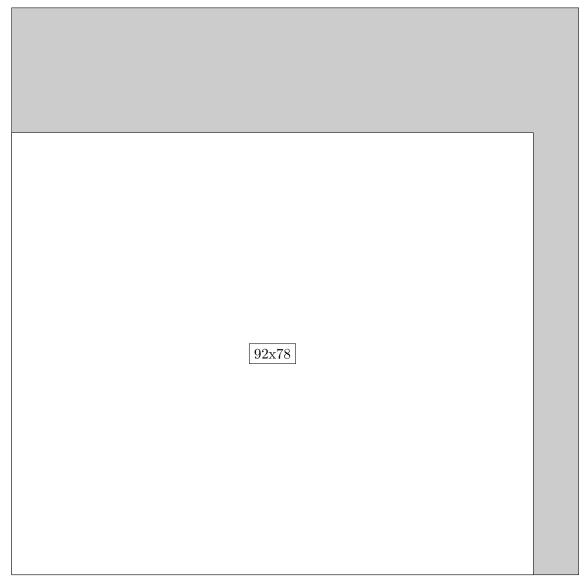
$$\begin{array}{l} w = \! 93 \ , \, h = \! 87 \ , \, x = \! 0 \ , \, y = \! 0 \ , \, v = \! 8091 \\ w = \! 1 \ , \, h = \! 24 \ , \, x = \! 93 \ , \, y = \! 0 \ , \, v = \! 24 \end{array}$$



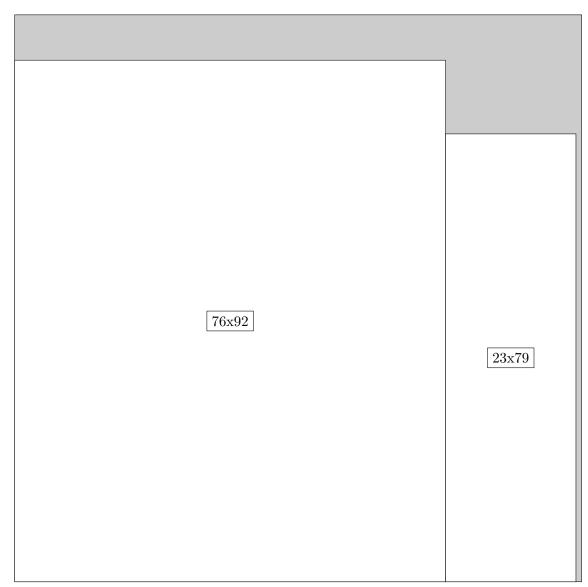
 $\le =88$, h =91 , x =0 , y =0 , v =8008

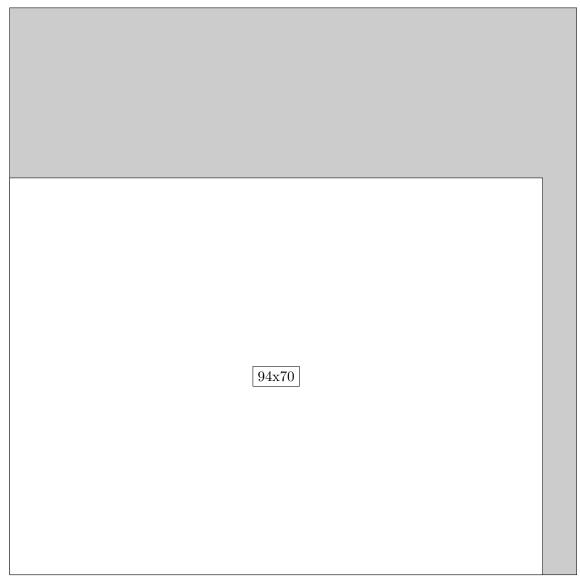


 $\overline{\mathrm{w}}$ =99 , h =76 , x =0 , y =0 , v =7524

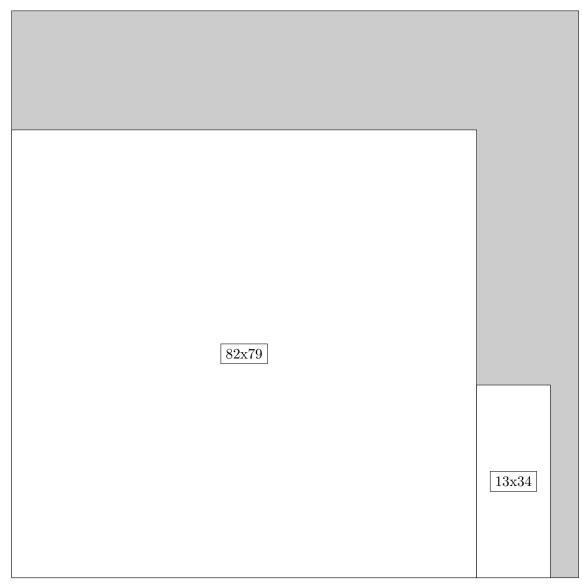


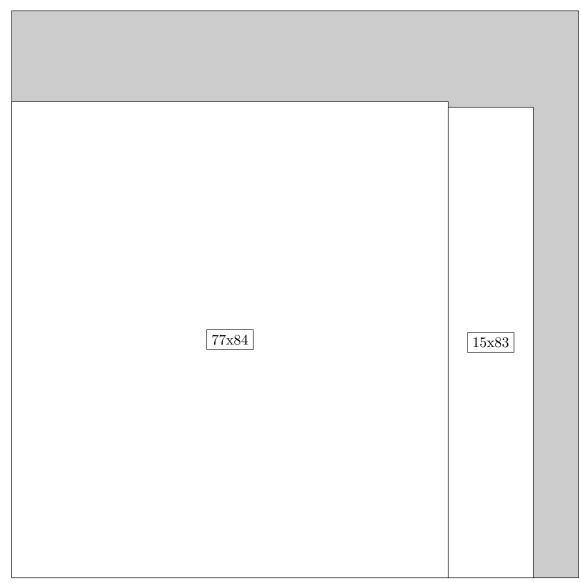
 $\le =92$, h =78 , x =0 , y =0 , v =7176

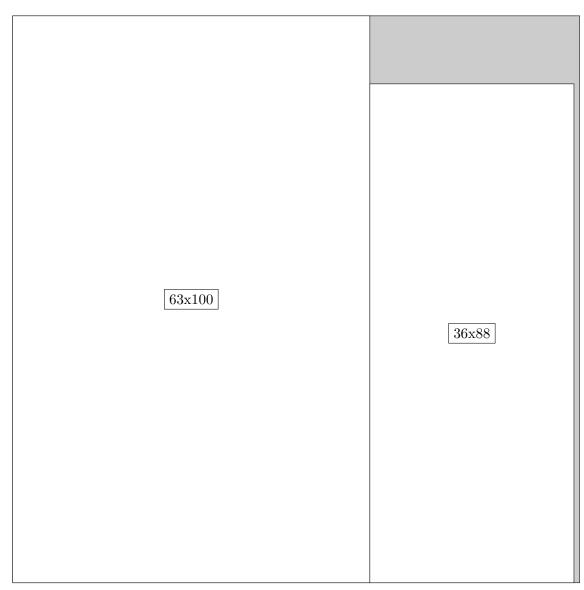


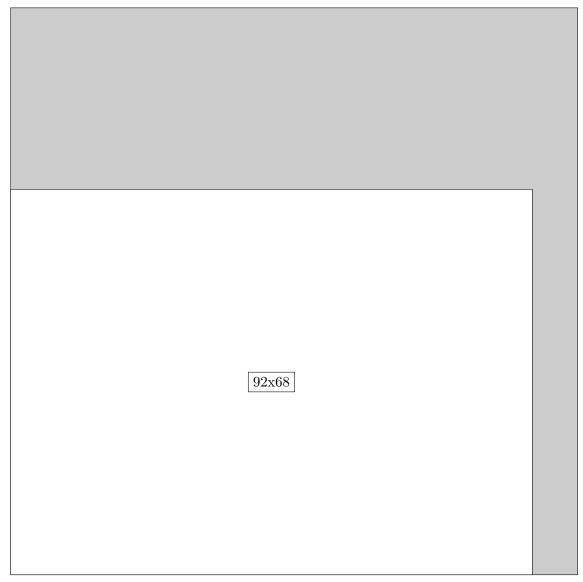


 $\le =94$, h =70 , x =0 , y =0 , v =6580

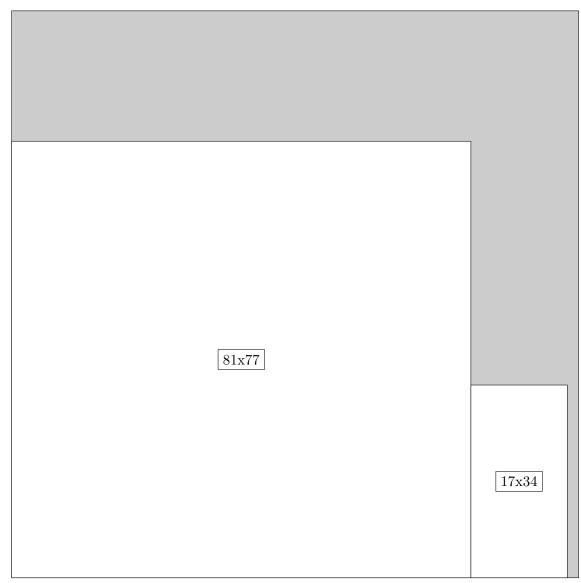




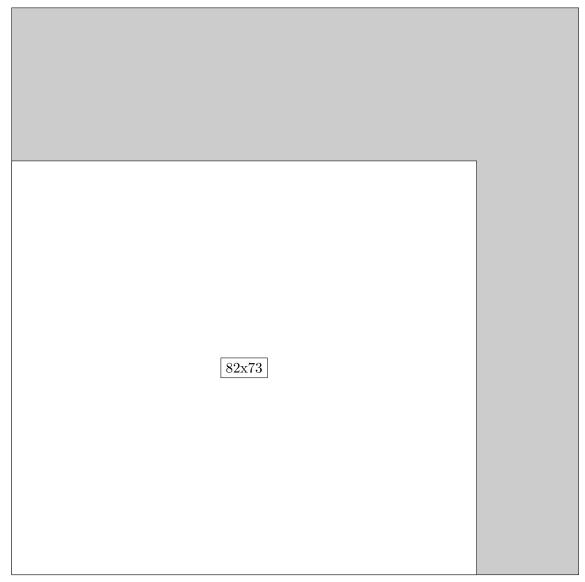




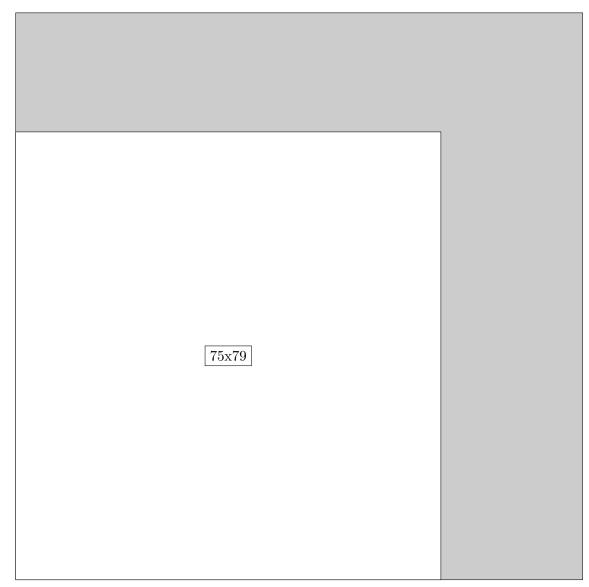
w = 92, h = 68, x = 0, y = 0, v = 6256



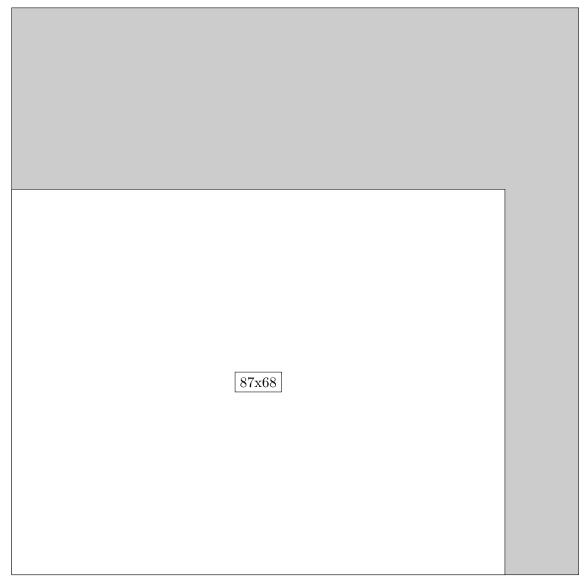
$$\begin{array}{c} w = \! 81 \; , \; h = \! 77 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 6237 \\ w = \! 17 \; , \; h = \! 34 \; , \; x = \! 81 \; , \; y = \! 0 \; , \; v = \! 578 \\ \end{array}$$



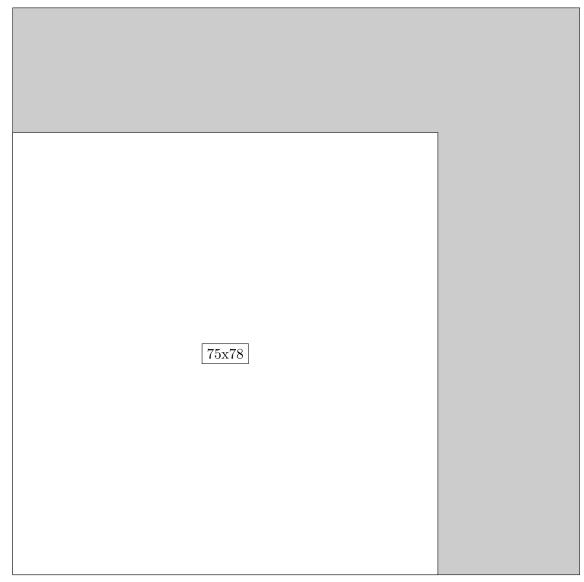
 $\le =82$, h =73 , x =0 , y =0 , v =5986



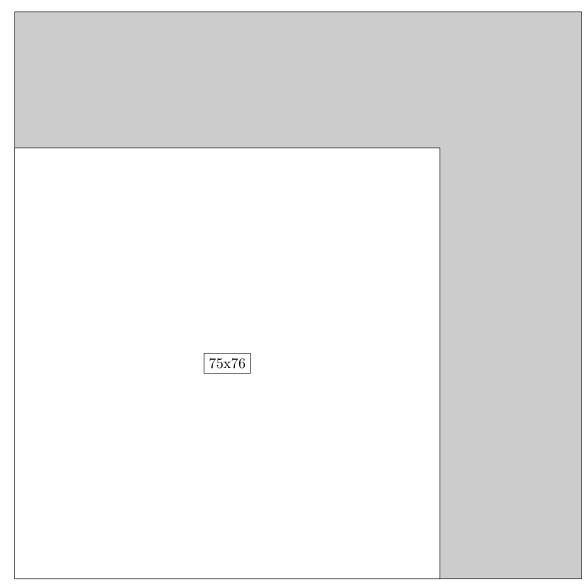
w = 75, h = 79, x = 0, y = 0, v = 5925



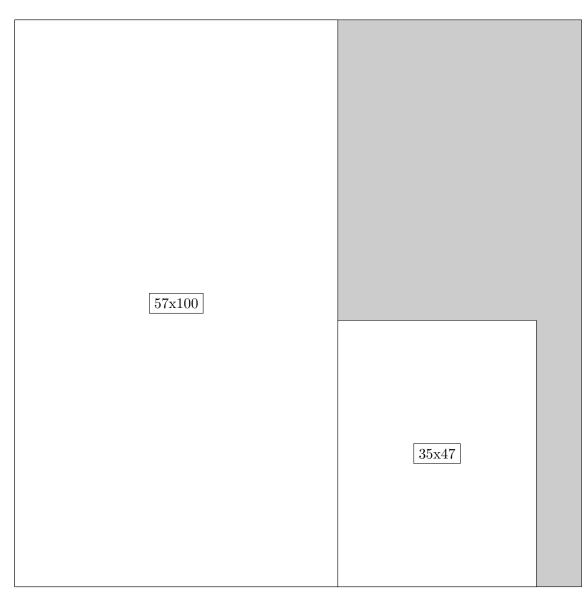
w = 87, h = 68, x = 0, y = 0, v = 5916



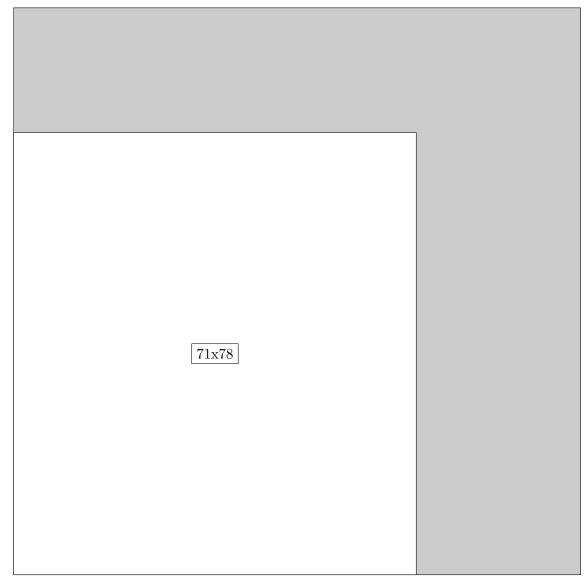
w = 75, h = 78, x = 0, y = 0, v = 5850



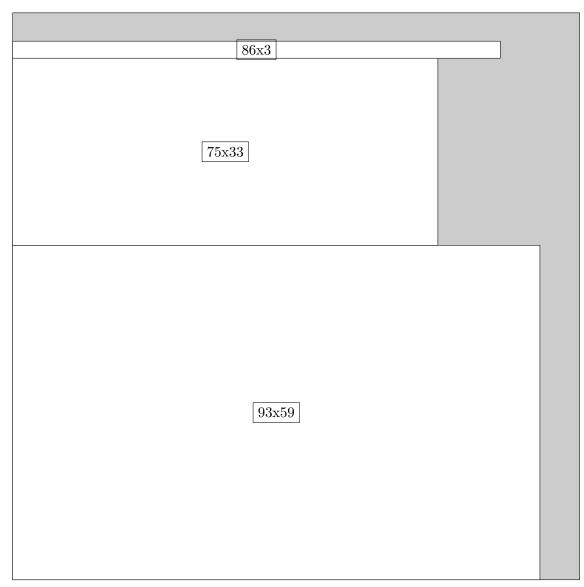
w = 75, h = 76, x = 0, y = 0, v = 5700



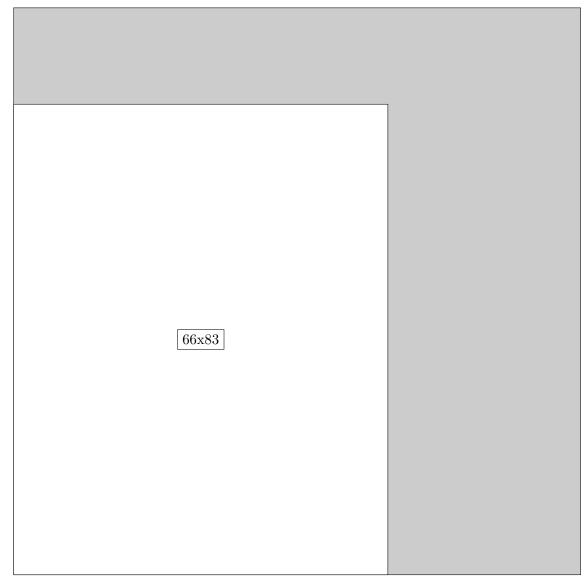
$$\begin{array}{c} w = \!\! 57 \; , \; h = \!\! 100 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 5700 \\ w = \!\! 35 \; , \; h = \!\! 47 \; , \; x = \!\! 57 \; , \; y = \!\! 0 \; , \; v = \!\! 1645 \\ \end{array}$$



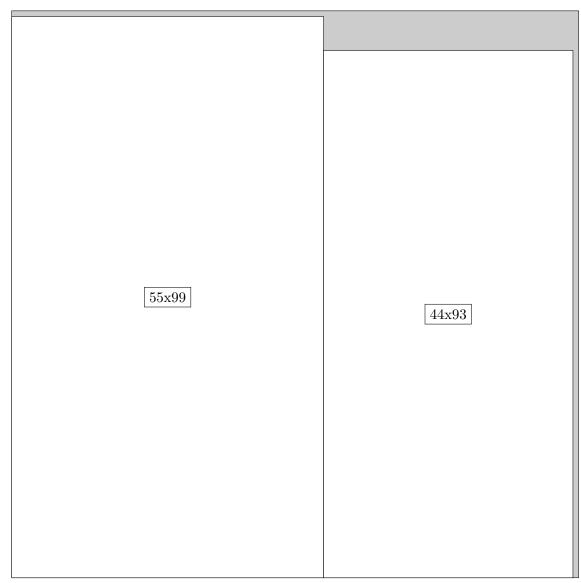
w = 71, h = 78, x = 0, y = 0, v = 5538

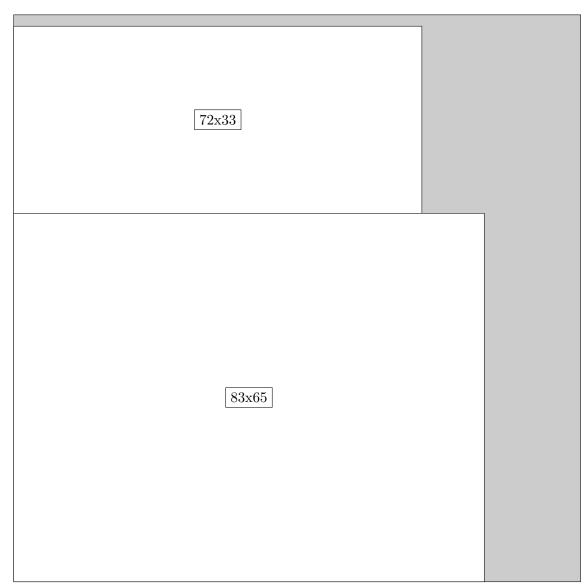


$$\begin{array}{l} w = \! 93 \ , \ h = \! 59 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 5487 \\ w = \! 75 \ , \ h = \! 33 \ , \ x = \! 0 \ , \ y = \! 59 \ , \ v = \! 2475 \\ w = \! 86 \ , \ h = \! 3 \ , \ x = \! 0 \ , \ y = \! 92 \ , \ v = \! 258 \end{array}$$

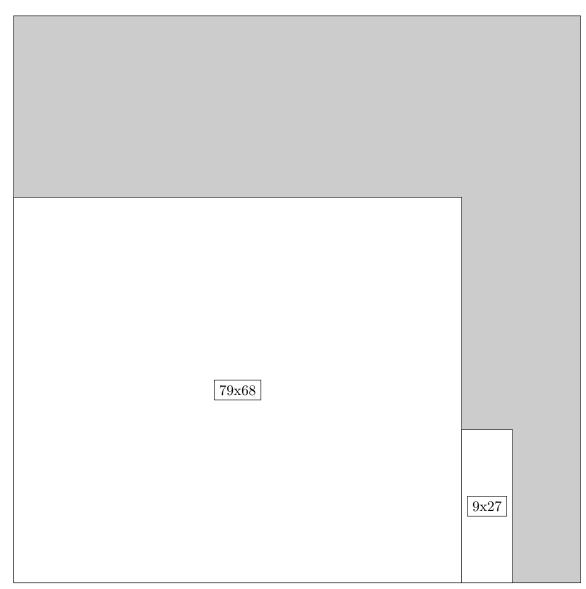


w = 66, h = 83, x = 0, y = 0, v = 5478

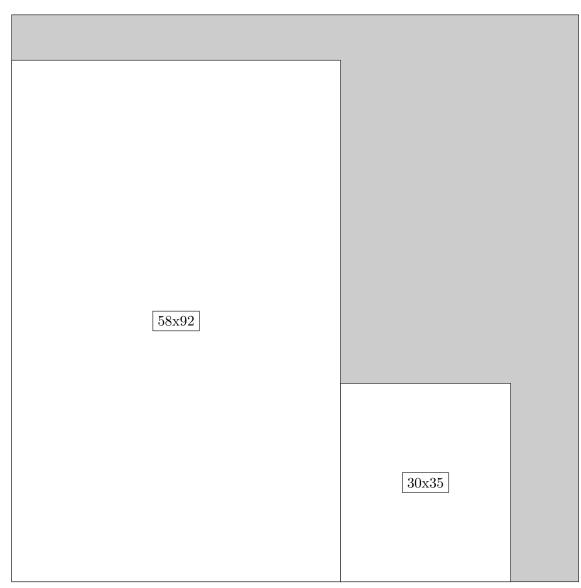


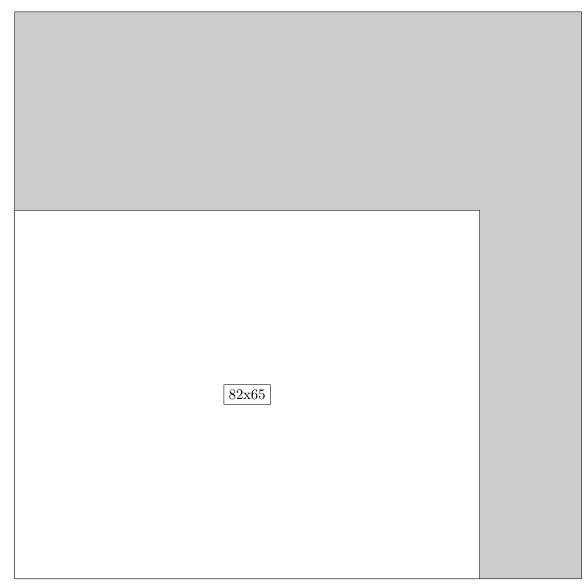


$$\begin{array}{l} w = \!\!\! 72 \ , \ h = \!\!\! 33 \ , \ x = \!\!\! 0 \ , \ y = \!\!\! 65 \ , \ v = \!\!\! 2376 \\ w = \!\!\! 83 \ , \ h = \!\!\! 65 \ , \ x = \!\!\! 0 \ , \ y = \!\!\! 0 \ , \ v = \!\!\! 5395 \end{array}$$

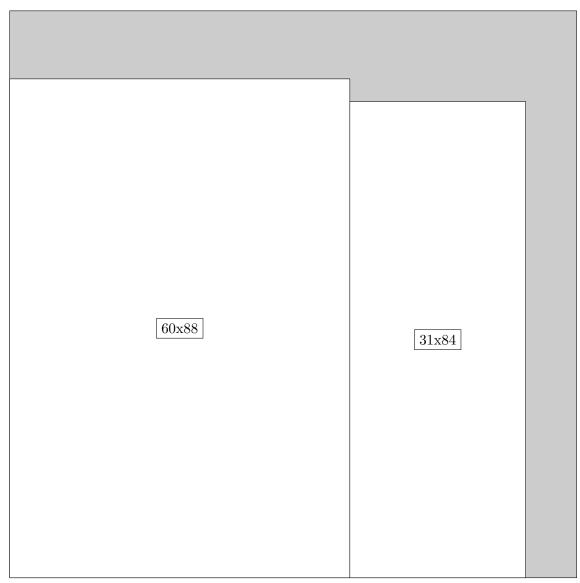


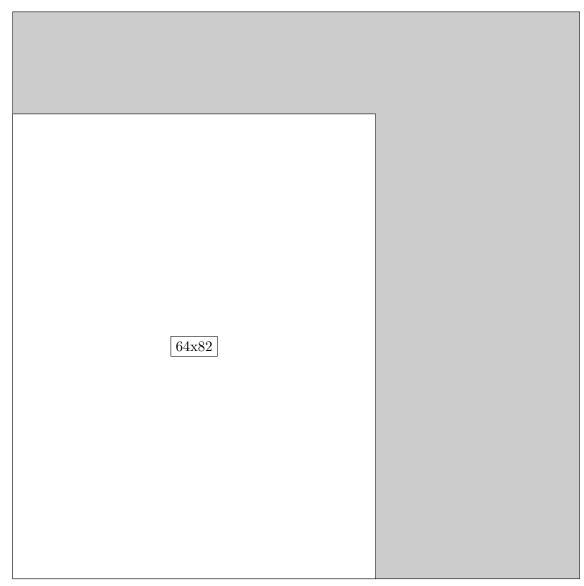
$$\begin{array}{l} w = 79 \ , \ h = 68 \ , \ x = 0 \ , \ y = 0 \ , \ v = 5372 \\ w = 9 \ , \ h = 27 \ , \ x = 79 \ , \ y = 0 \ , \ v = 243 \end{array}$$



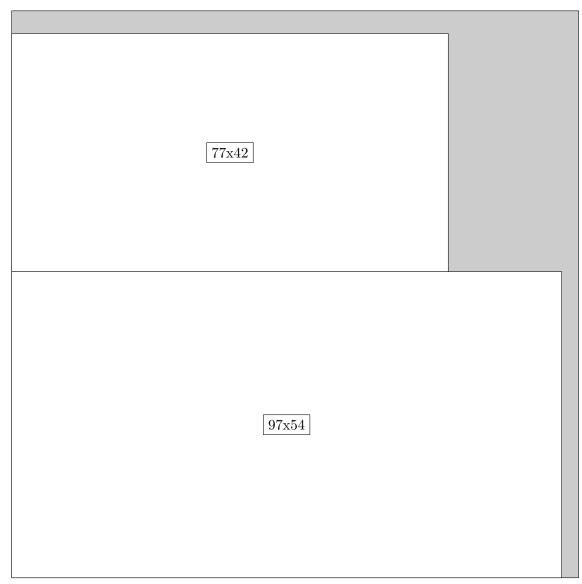


 $\le =82$, h =65 , x =0 , y =0 , v =5330

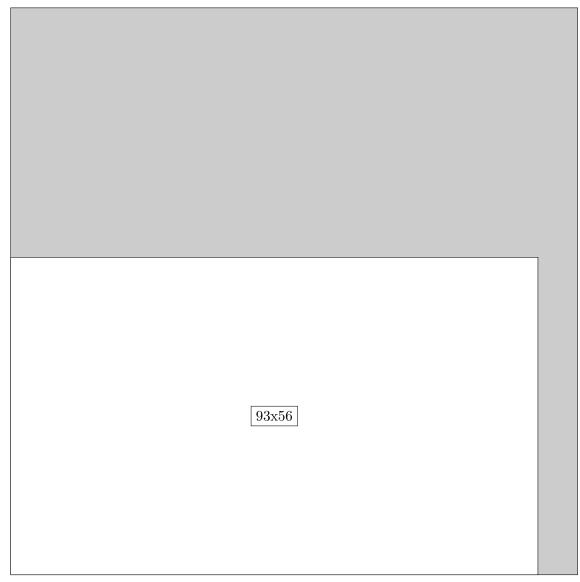




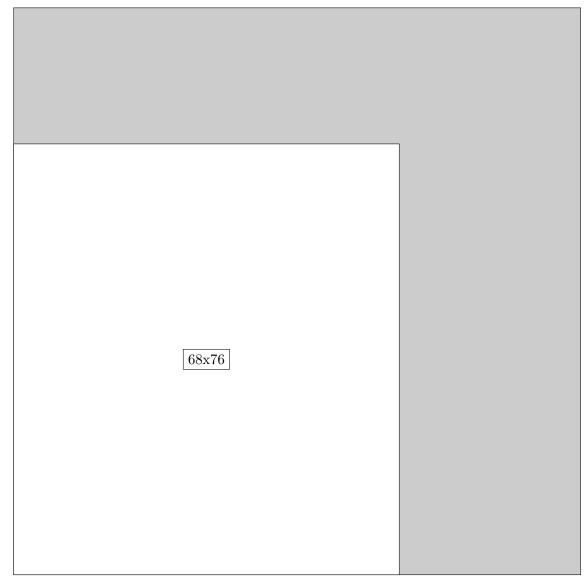
w = 64, h = 82, x = 0, y = 0, v = 5248



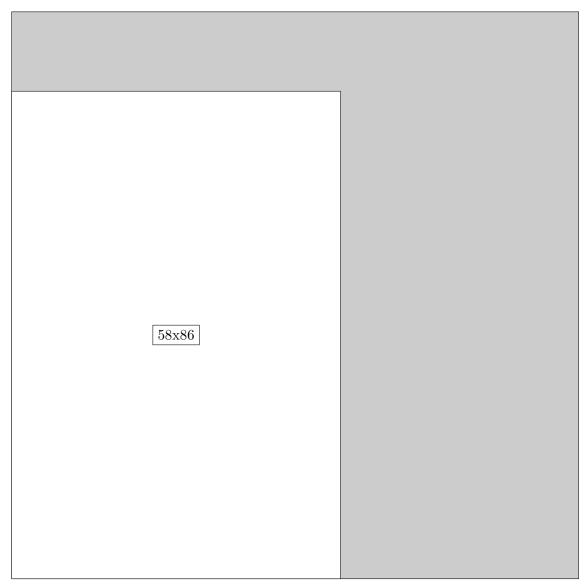
$$\begin{array}{l} w = \! 97 \ , \ h = \! 54 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 5238 \\ w = \! 77 \ , \ h = \! 42 \ , \ x = \! 0 \ , \ y = \! 54 \ , \ v = \! 3234 \end{array}$$



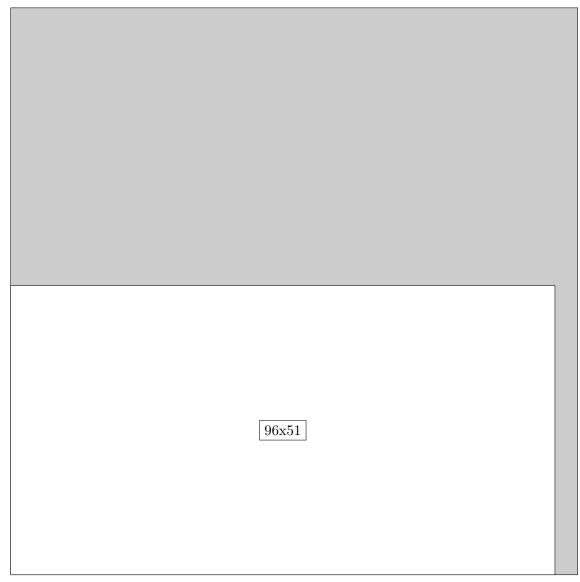
 $\le =93$, h =56 , x =0 , y =0 , v =5208



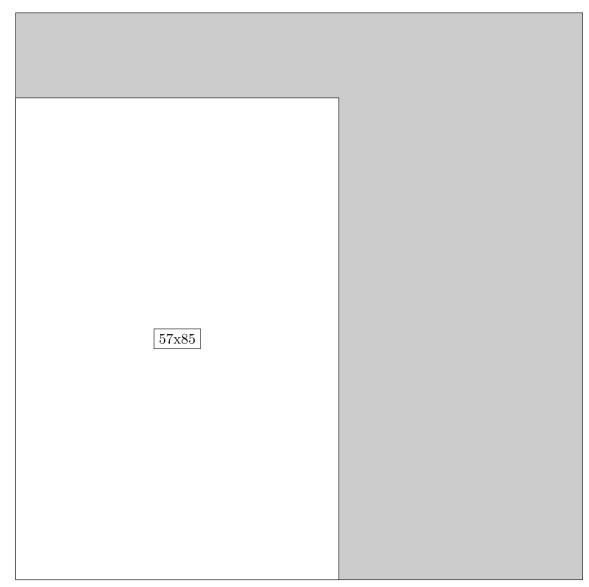
w = 68, h = 76, x = 0, y = 0, v = 5168



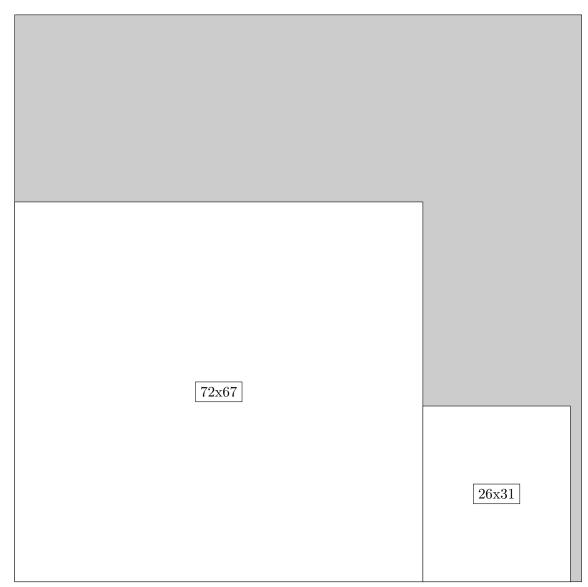
w = 58, h = 86, x = 0, y = 0, v = 4988



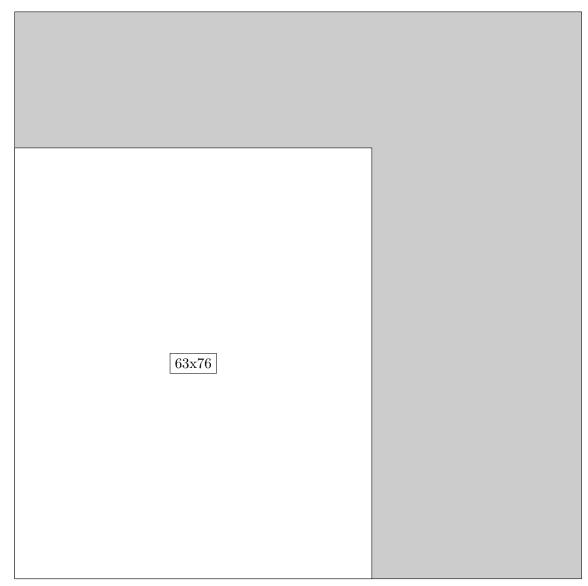
 $\le =96$, h =51 , x =0 , y =0 , v =4896



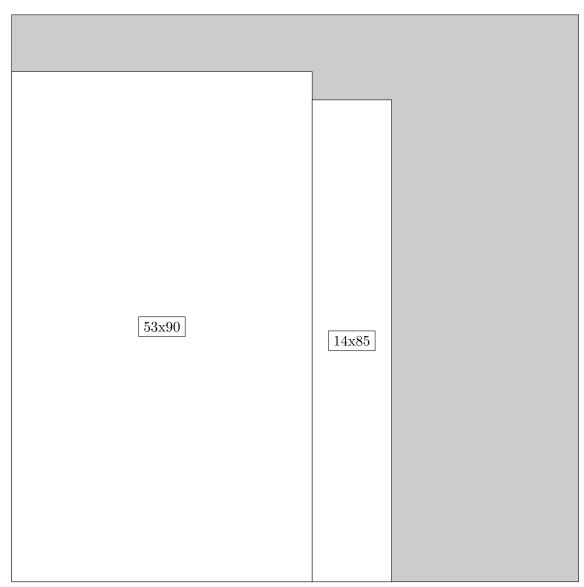
w = 57, h = 85, x = 0, y = 0, v = 4845

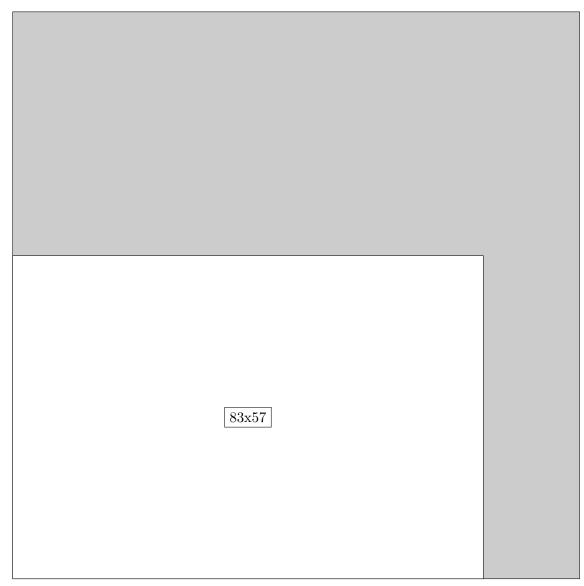


$$\begin{array}{c} w = 72 \; , \; h = 67 \; , \; x = 0 \; , \; y = 0 \; , \; v = \!\! 4824 \\ w = \!\! 26 \; , \; h = \!\! 31 \; , \; x = \!\! 72 \; , \; y = \!\! 0 \; , \; v = \!\! 806 \\ \end{array}$$

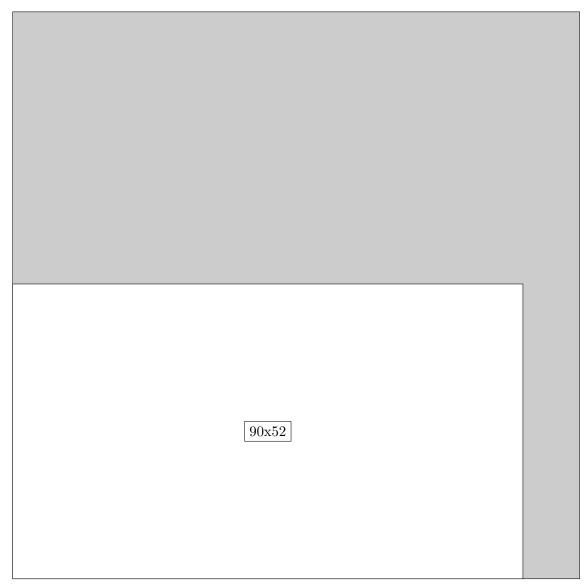


w = 63, h = 76, x = 0, y = 0, v = 4788

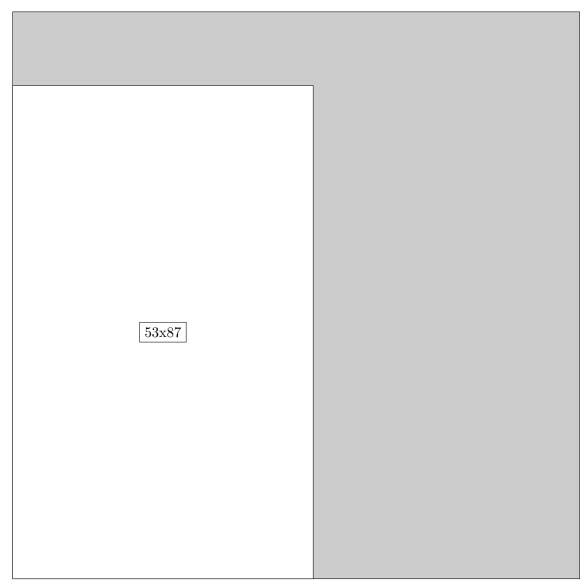




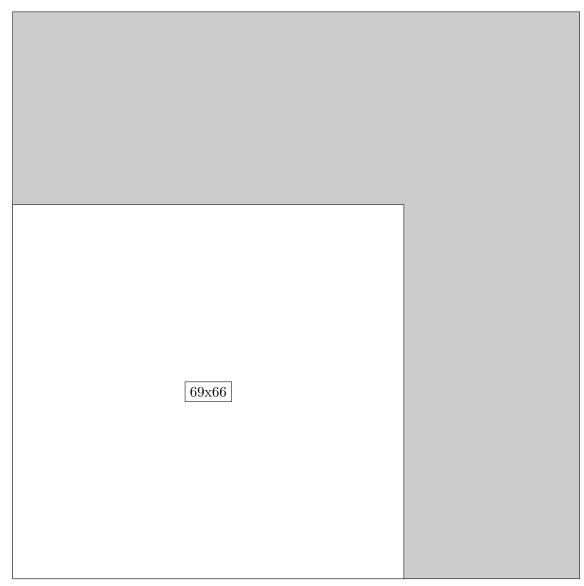
 $\le =83$, h =57 , x =0 , y =0 , v =4731



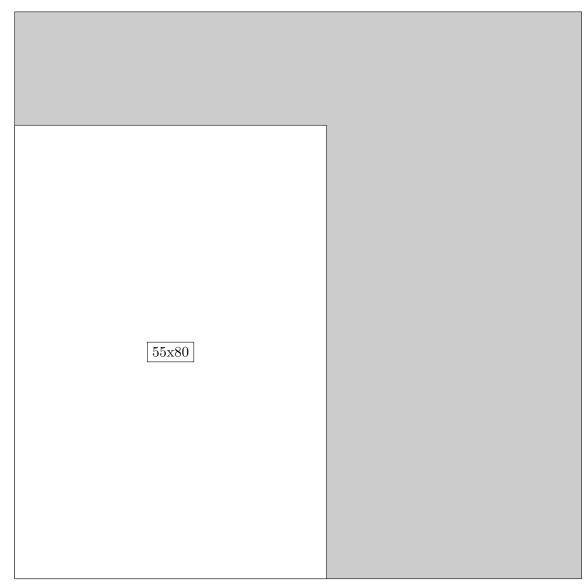
 $\le =90$, h =52 , x =0 , y =0 , v =4680



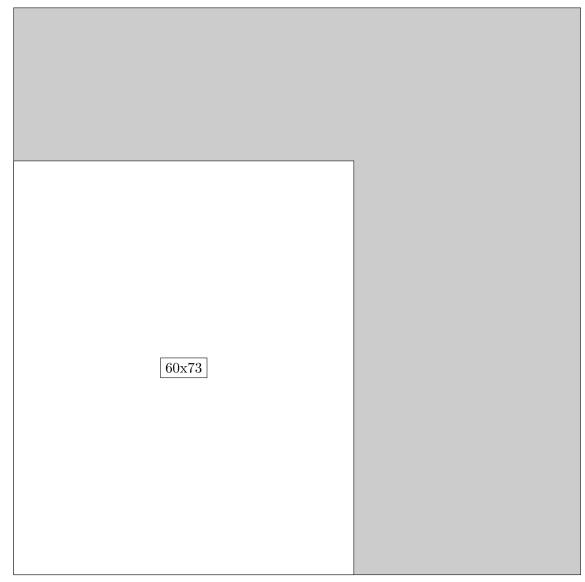
 $\overline{w} = 53$, h = 87, x = 0, y = 0, v = 4611



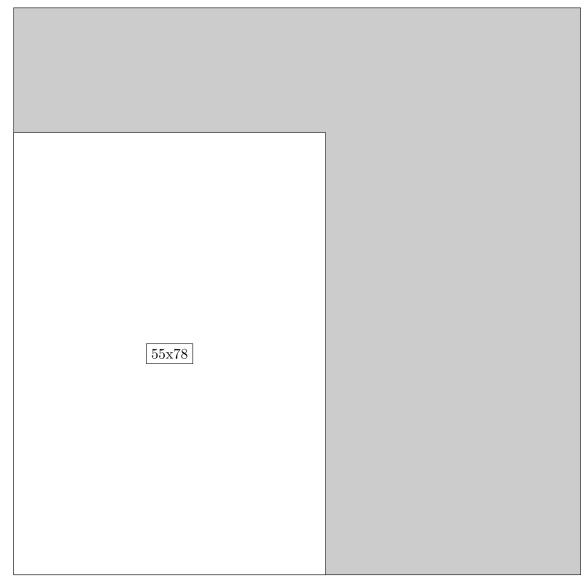
w = 69, h = 66, x = 0, y = 0, v = 4554



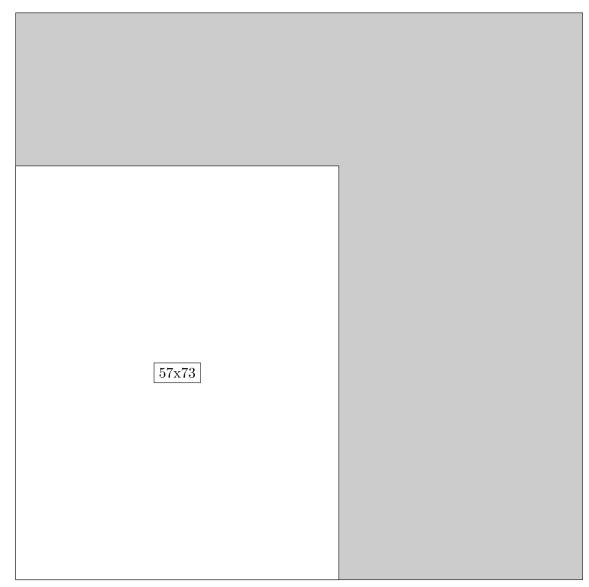
w = 55, h = 80, x = 0, y = 0, v = 4400



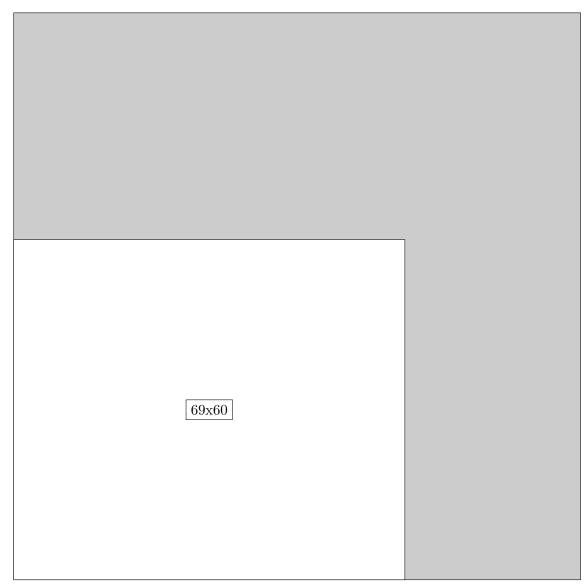
w = 60, h = 73, x = 0, y = 0, v = 4380



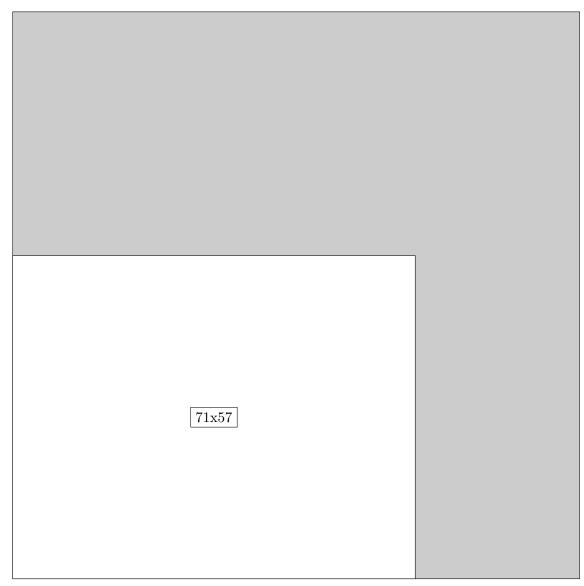
w = 55, h = 78, x = 0, y = 0, v = 4290



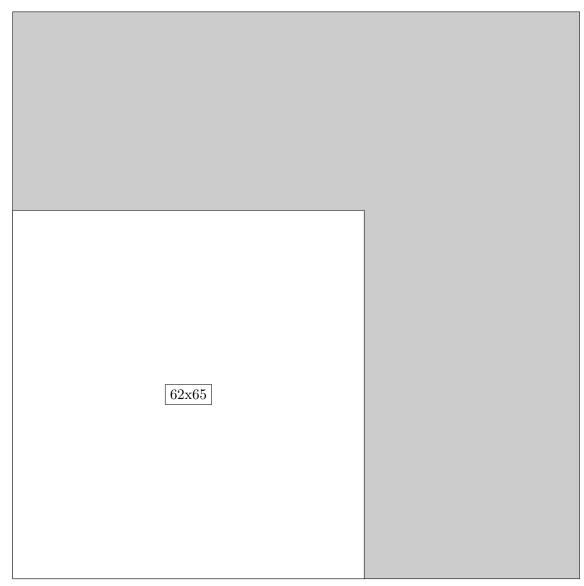
w = 57, h = 73, x = 0, y = 0, v = 4161



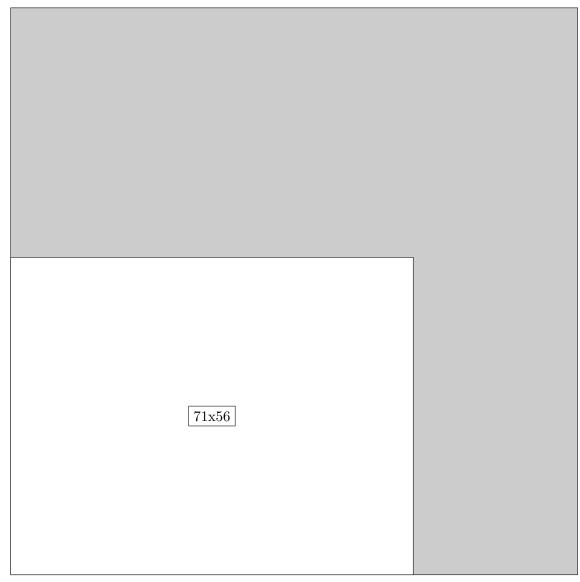
 $\overline{\mathbf{w}} = 69$, $\mathbf{h} = 60$, $\mathbf{x} = 0$, $\mathbf{y} = 0$, $\mathbf{v} = 4140$



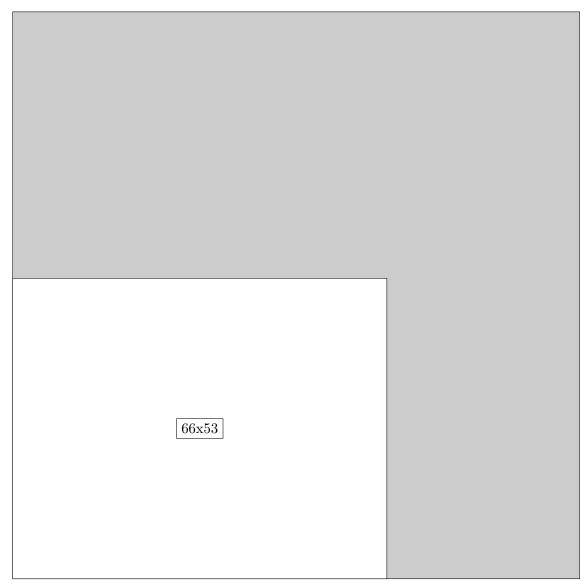
w = 71, h = 57, x = 0, y = 0, v = 4047



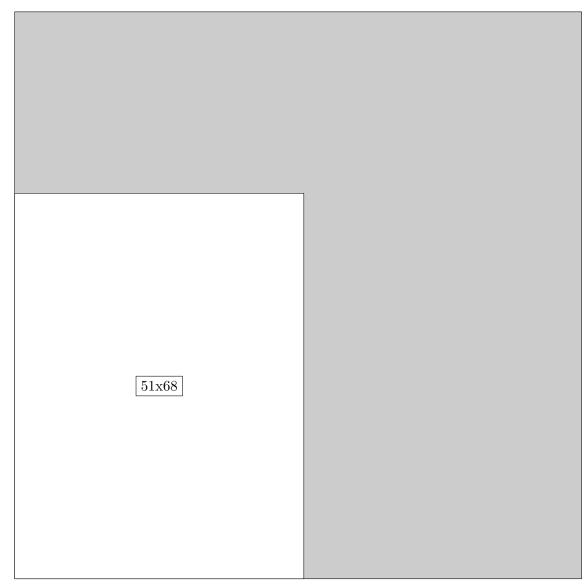
w = 62, h = 65, x = 0, y = 0, v = 4030



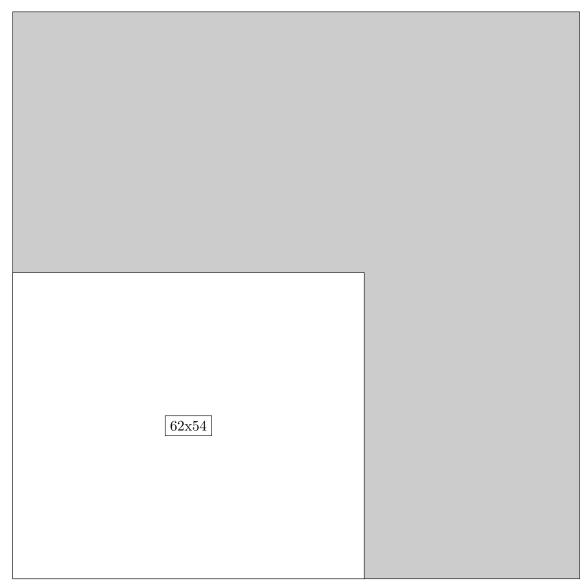
w = 71, h = 56, x = 0, y = 0, v = 3976



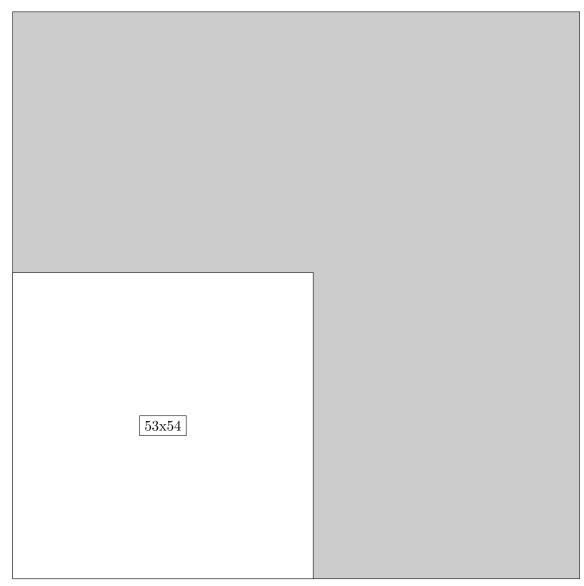
 $\overline{\mathbf{w}} = 66$, $\mathbf{h} = 53$, $\mathbf{x} = 0$, $\mathbf{y} = 0$, $\mathbf{v} = 3498$



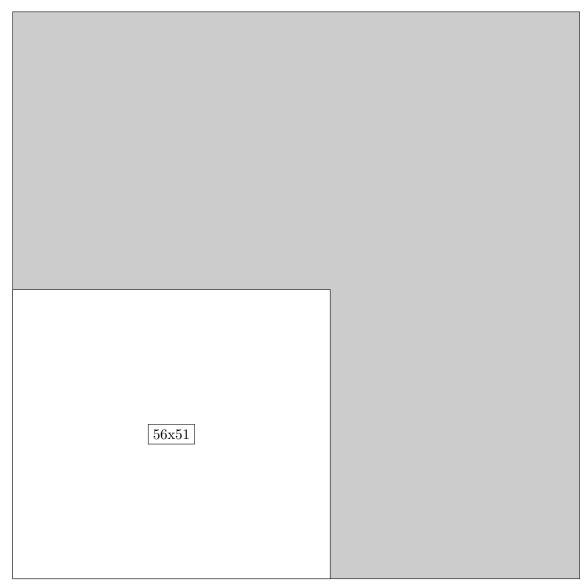
 $\overline{w} = 51$, h = 68, x = 0, y = 0, v = 3468



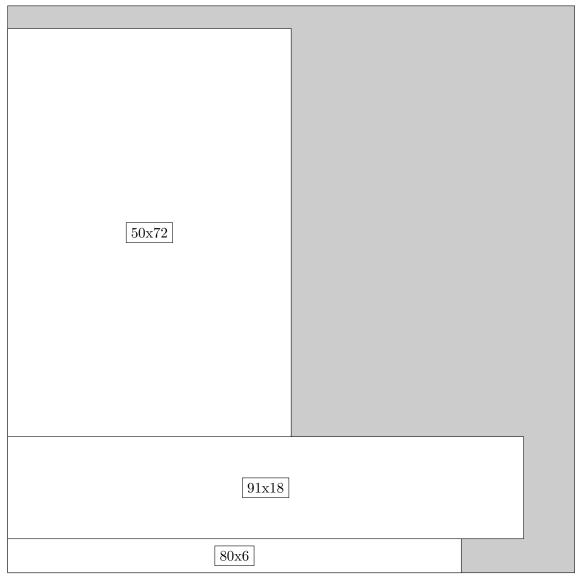
w = 62, h = 54, x = 0, y = 0, v = 3348



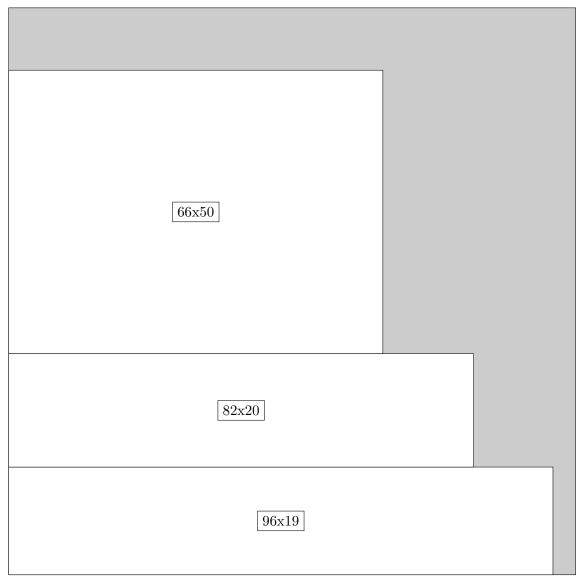
w = 53, h = 54, x = 0, y = 0, v = 2862



w = 56, h = 51, x = 0, y = 0, v = 2856



$$\begin{array}{l} w = & 91 \ , \ h = & 18 \ , \ x = & 0 \ , \ y = & 6 \ , \ v = & 1638 \\ w = & 50 \ , \ h = & 72 \ , \ x = & 0 \ , \ y = & 24 \ , \ v = & 3600 \\ w = & 80 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 480 \end{array}$$



$$w = 66$$
, $h = 50$, $x = 0$, $y = 39$, $v = 3300$

$$\mathbf{w}$$
 =96 , h =19 , x =0 , y =0 , v =1824

$$\le =82$$
 , h =20 , x =0 , y =19 , v =1640