$ClassName: \ Class\_09.2bp-37$ 

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

TypeNum: <u>80</u> Num: <u>80</u> OutS: <u>580000</u> InS: <u>368802</u> Rate: <u>0.636</u> UB: <u>58</u> LB0: <u>58</u> LB: <u>58</u>

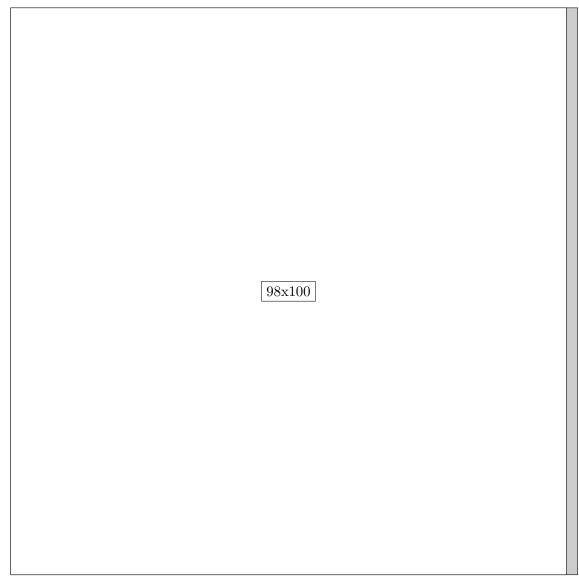
LBWithCut:  $\underline{\mathbf{58}}$  NodeCut:  $\underline{\mathbf{0}}$ 

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

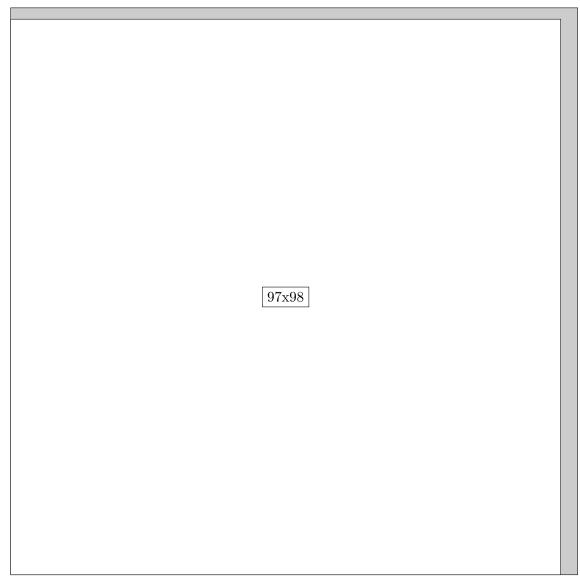
GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{58}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt: **true** 

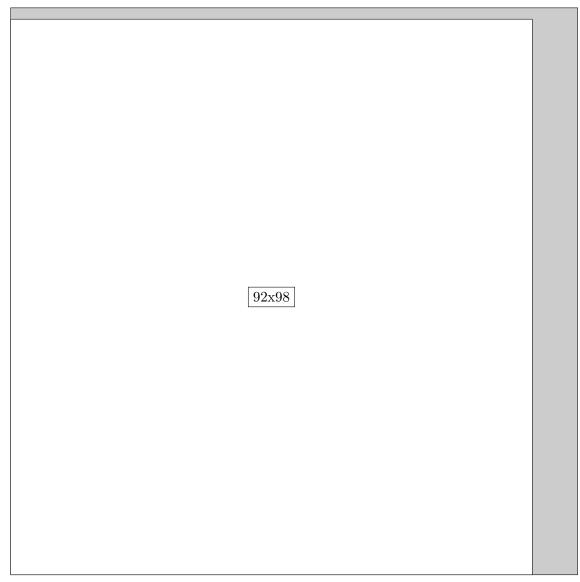
 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.040 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.078 \ s} \\ {\rm TotalTime:} \ \underline{0.181 \ s} \\ \end{array}$ 



 $\le =98$  , h =100 , x =0 , y =0 , v =9800



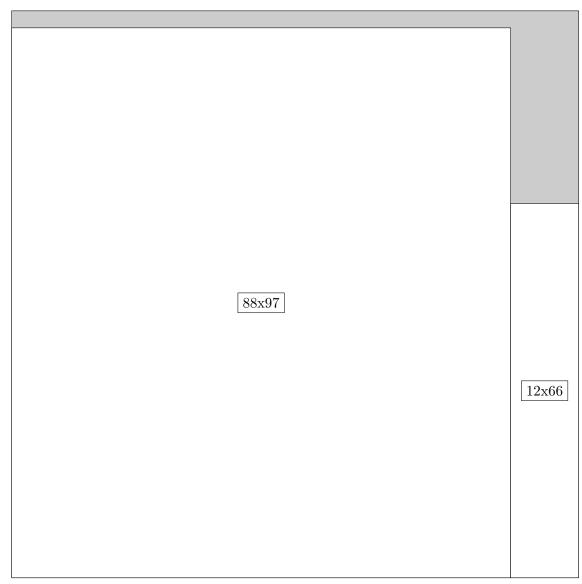
w = 97, h = 98, x = 0, y = 0, v = 9506



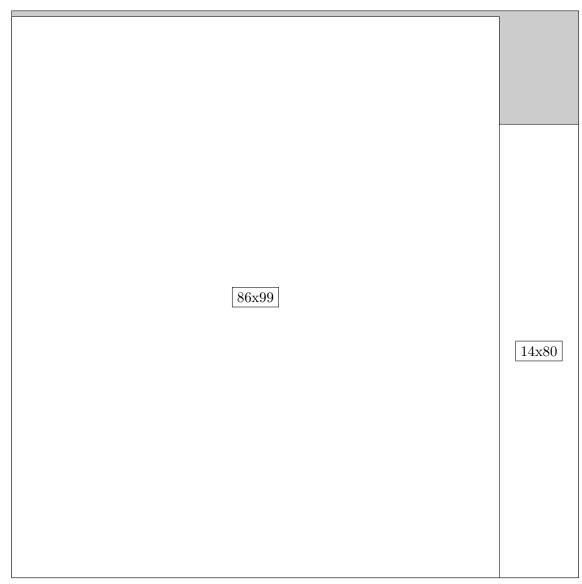
 $\le =92$  , h =98 , x =0 , y =0 , v =9016



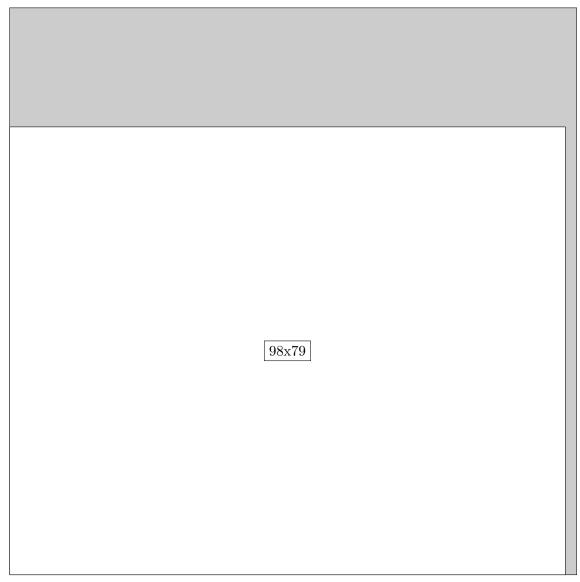
 $\le =100$  , h =89 , x =0 , y =0 , v =8900



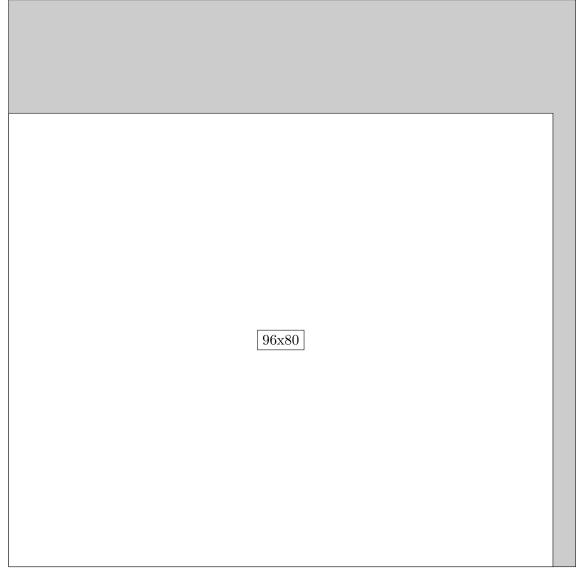
$$\begin{array}{c} w = 88 \; , \; h = 97 \; , \; x = 0 \; , \; y = 0 \; , \; v = 8536 \\ w = 12 \; , \; h = 66 \; , \; x = 88 \; , \; y = 0 \; , \; v = 792 \\ \end{array}$$



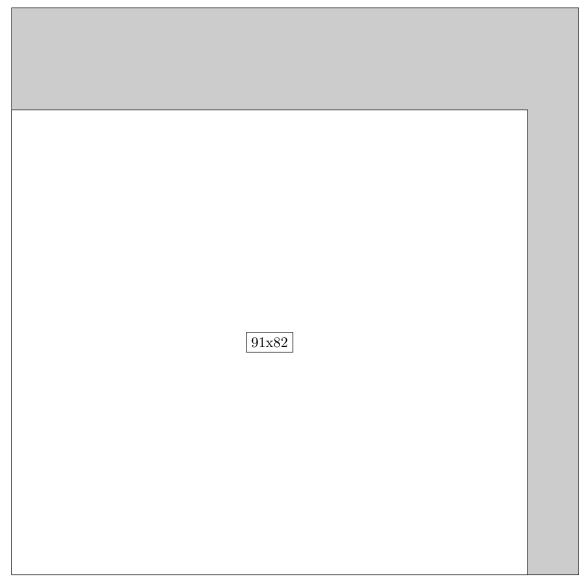
$$\begin{array}{c} w = \! 86 \; , \; h = \! 99 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 8514 \\ w = \! 14 \; , \; h = \! 80 \; , \; x = \! 86 \; , \; y = \! 0 \; , \; v = \! 1120 \\ \end{array}$$



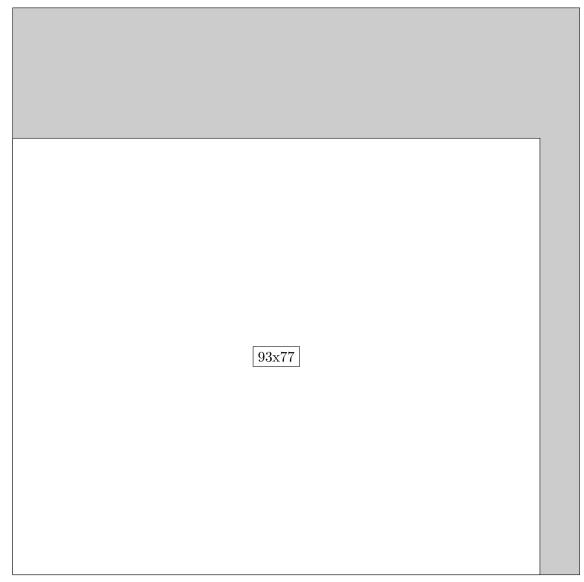
 $\le =98$  , h =79 , x =0 , y =0 , v =7742



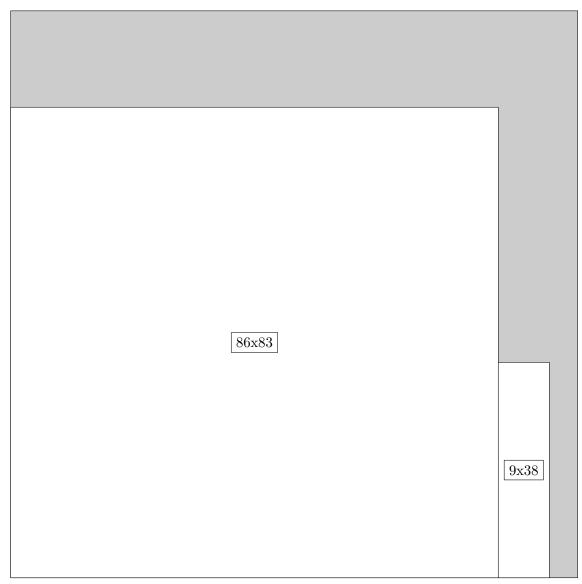
 $\overline{\mathbf{w}} = 96$ ,  $\mathbf{h} = 80$ ,  $\mathbf{x} = 0$ ,  $\mathbf{y} = 0$ ,  $\mathbf{v} = 7680$ 



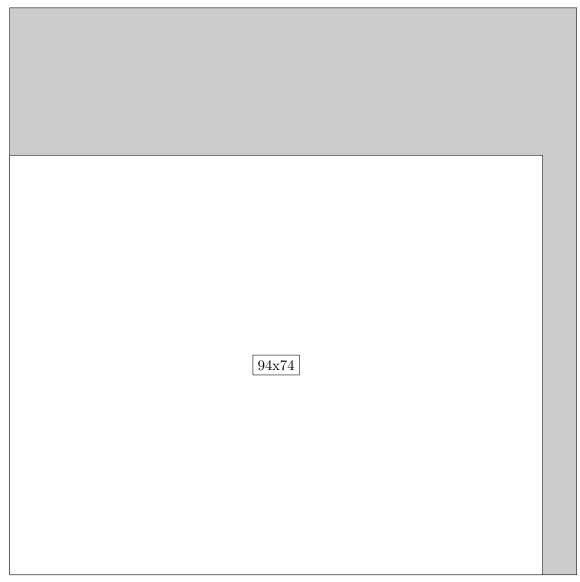
 $\le =91$  , h =82 , x =0 , y =0 , v =7462



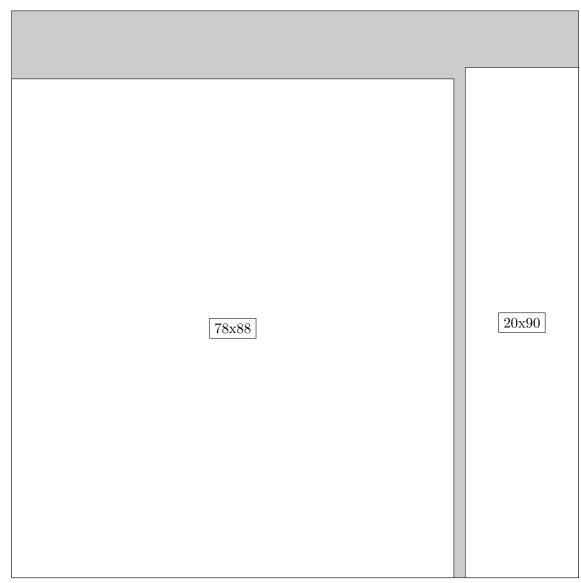
 $\le =93$  , h =77 , x =0 , y =0 , v =7161

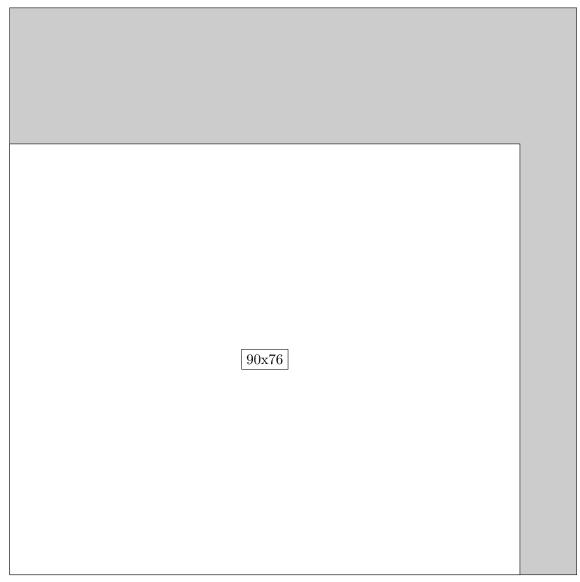


 $\begin{array}{l} w = \! 86 \; , \; h = \! 83 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 7138 \\ w = \! 9 \; , \; h = \! 38 \; , \; x = \! 86 \; , \; y = \! 0 \; , \; v = \! 342 \end{array}$ 

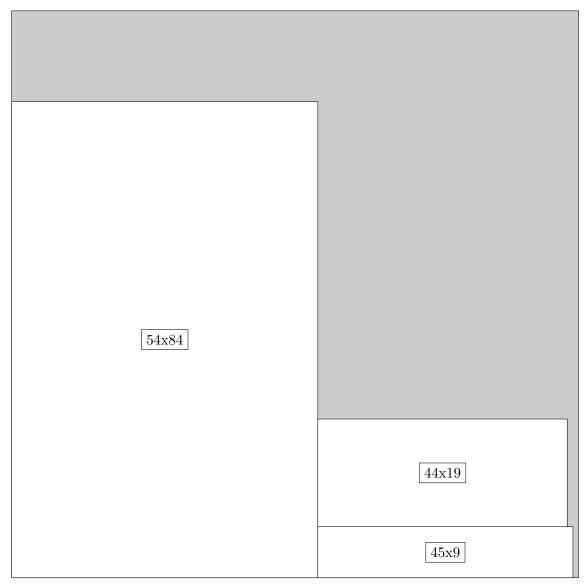


w = 94, h = 74, x = 0, y = 0, v = 6956

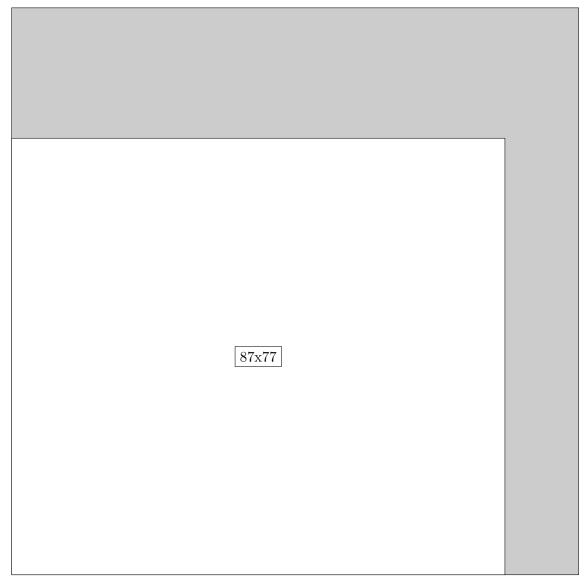




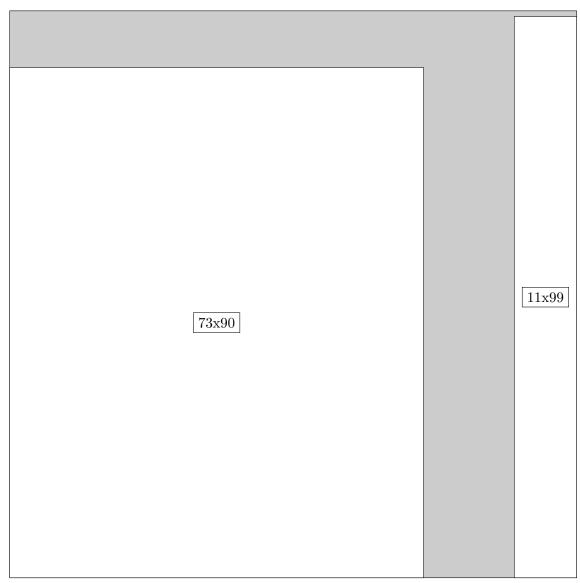
 $\overline{\mathbf{w}} = 90$ ,  $\mathbf{h} = 76$ ,  $\mathbf{x} = 0$ ,  $\mathbf{y} = 0$ ,  $\mathbf{v} = 6840$ 

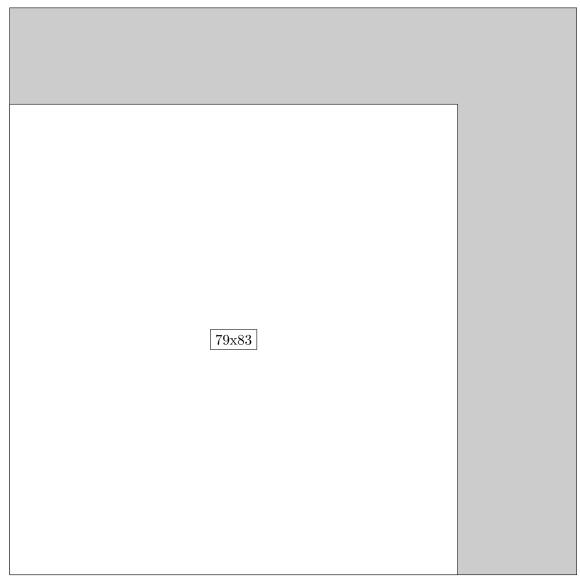


$$\begin{array}{l} w = \!54 \;,\; h = \!84 \;,\; x = \!0 \;,\; y = \!0 \;,\; v = \!\!4536 \\ w = \!\!44 \;,\; h = \!\!19 \;,\; x = \!\!54 \;,\; y = \!\!9 \;,\; v = \!\!836 \\ w = \!\!45 \;,\; h = \!\!9 \;,\; x = \!\!54 \;,\; y = \!\!0 \;,\; v = \!\!405 \end{array}$$

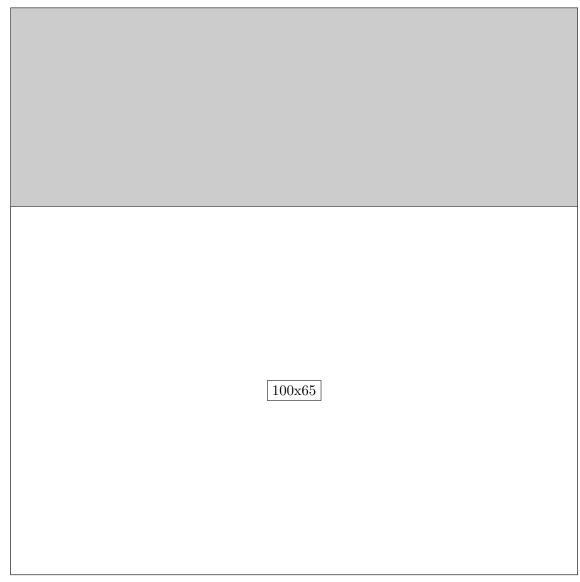


w = 87, h = 77, x = 0, y = 0, v = 6699

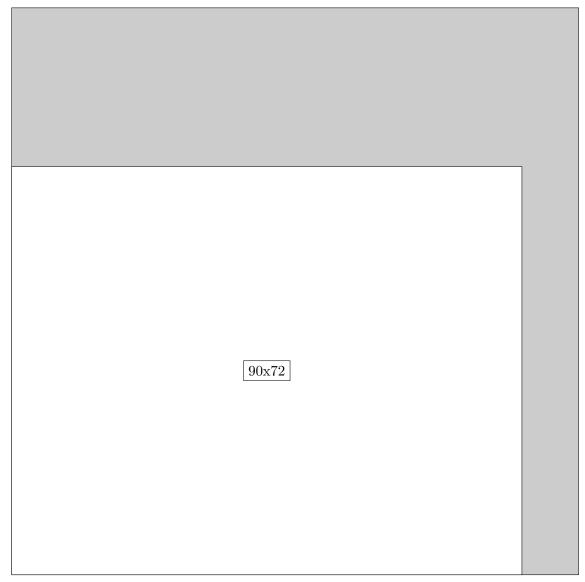




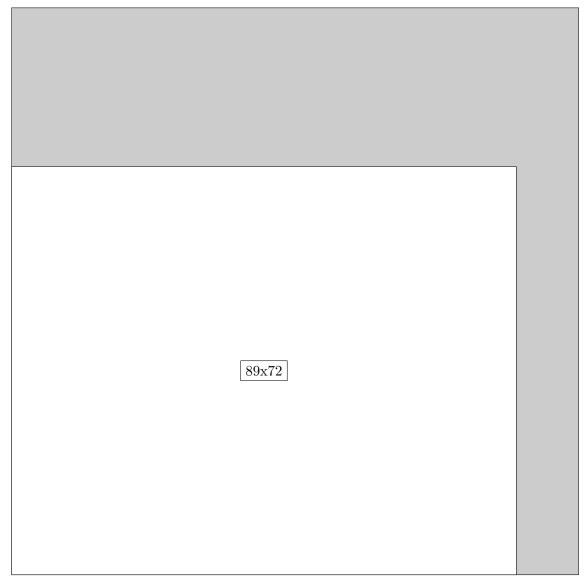
 $\mathbf{w}$  =79 , h =83 , x =0 , y =0 , v =6557



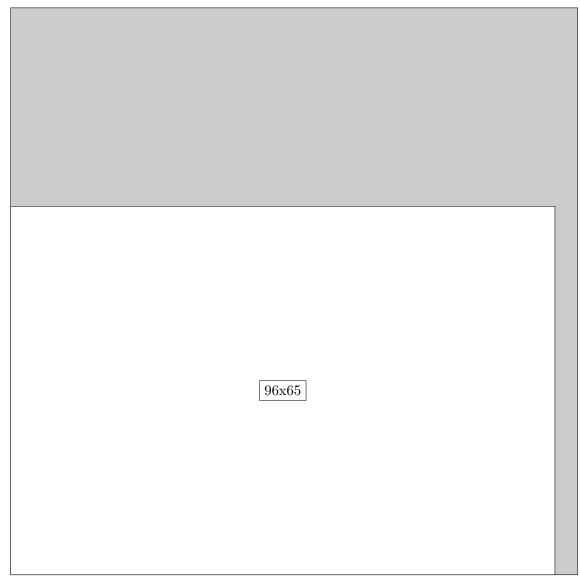
 $\le =100$  , h =65 , x =0 , y =0 , v =6500



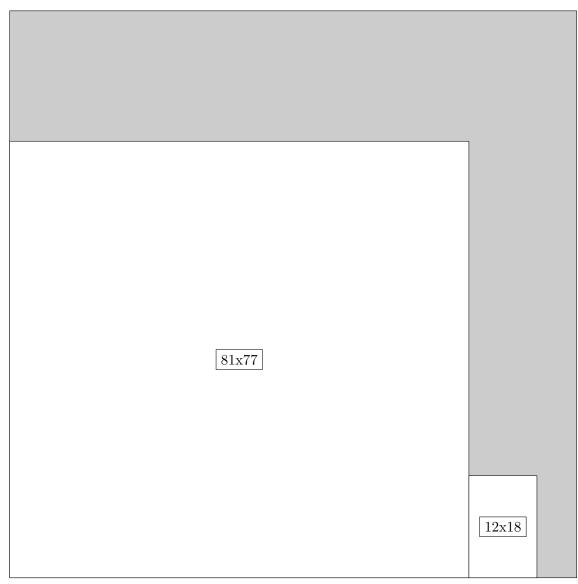
w = 90, h = 72, x = 0, y = 0, v = 6480

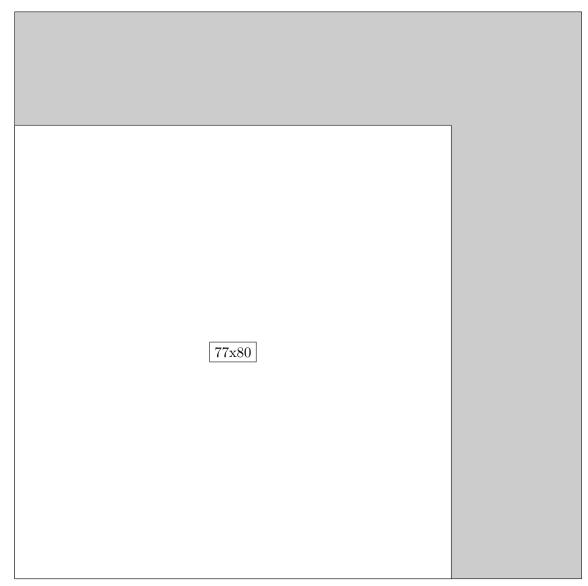


 $\le =89$  , h =72 , x =0 , y =0 , v =6408

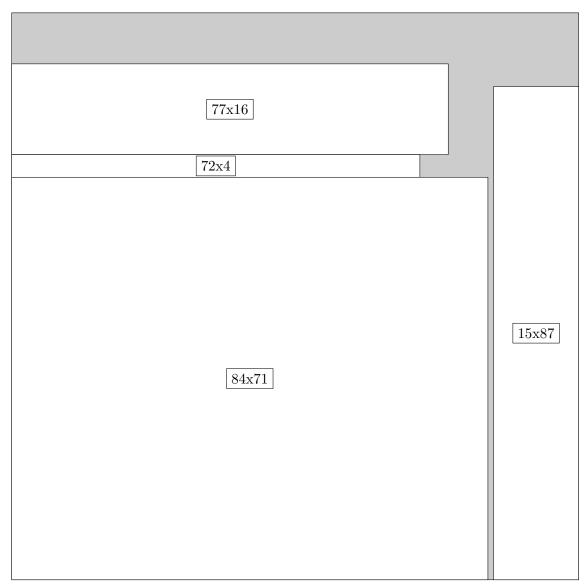


 $\le =96$  , h =65 , x =0 , y =0 , v =6240





 $\overline{\mathbf{w}} = 77$ ,  $\mathbf{h} = 80$ ,  $\mathbf{x} = 0$ ,  $\mathbf{y} = 0$ ,  $\mathbf{v} = 6160$ 

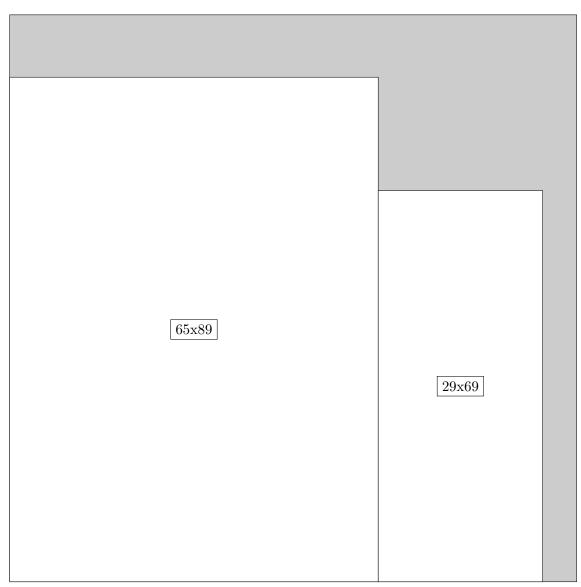


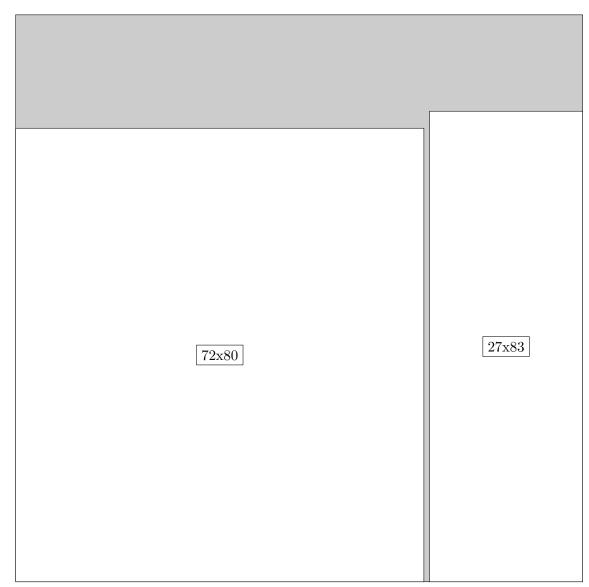
$$w$$
 =84 ,  $h$  =71 ,  $x$  =0 ,  $y$  =0 ,  $v$  =5964

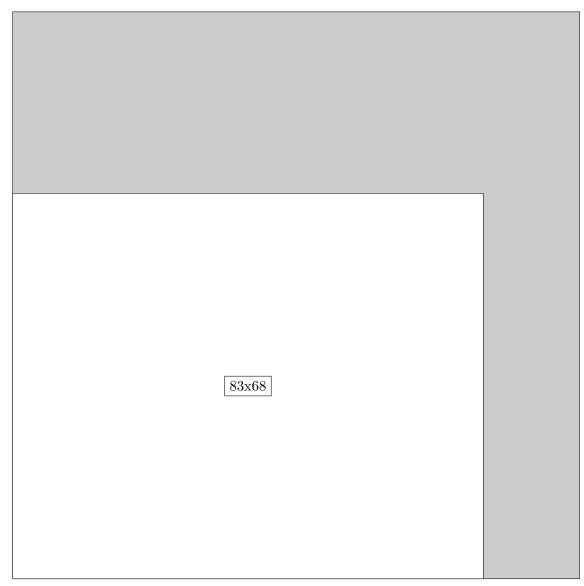
$$w=\!15$$
 ,  $h=\!87$  ,  $x=\!85$  ,  $y=\!0$  ,  $v=\!1305$ 

$$\le =77$$
 , h =16 , x =0 , y =75 , v =1232

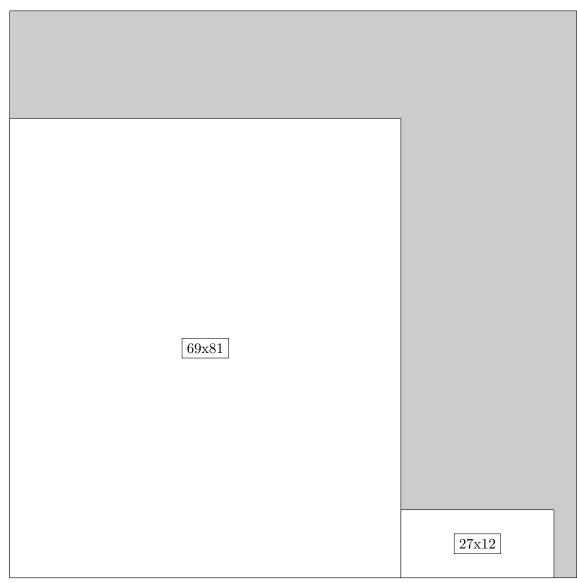
$$\mathbf{w}$$
 =72 , h =4 , x =0 , y =71 , v =288



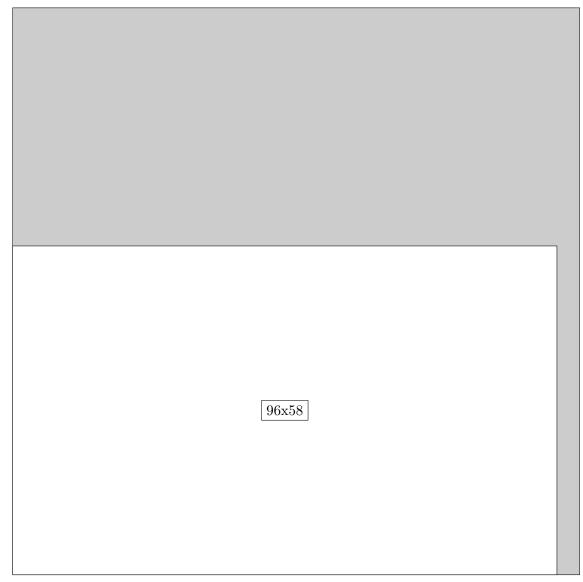




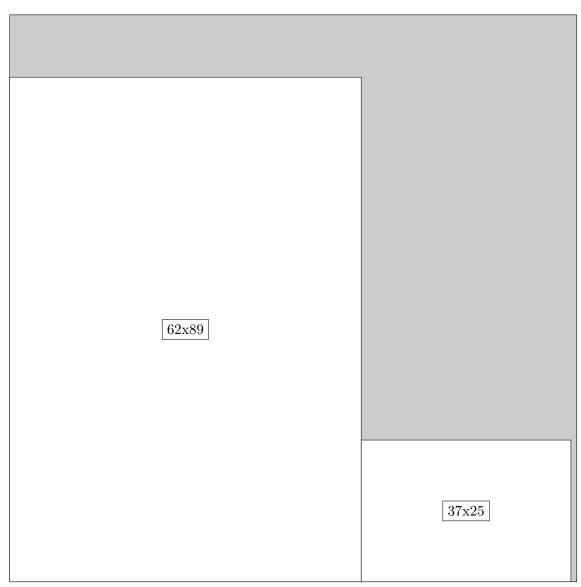
w = 83, h = 68, x = 0, y = 0, v = 5644



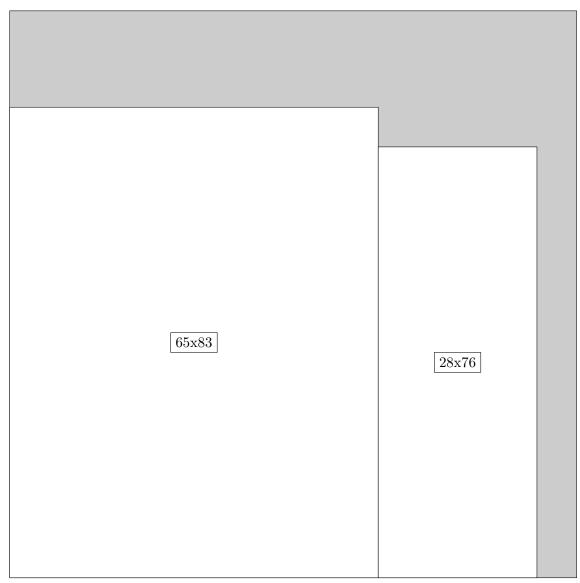
$$\begin{array}{c} w = 69 \; , \; h = \!\! 81 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 5589 \\ w = \!\! 27 \; , \; h = \!\! 12 \; , \; x = \!\! 69 \; , \; y = \!\! 0 \; , \; v = \!\! 324 \\ \end{array}$$



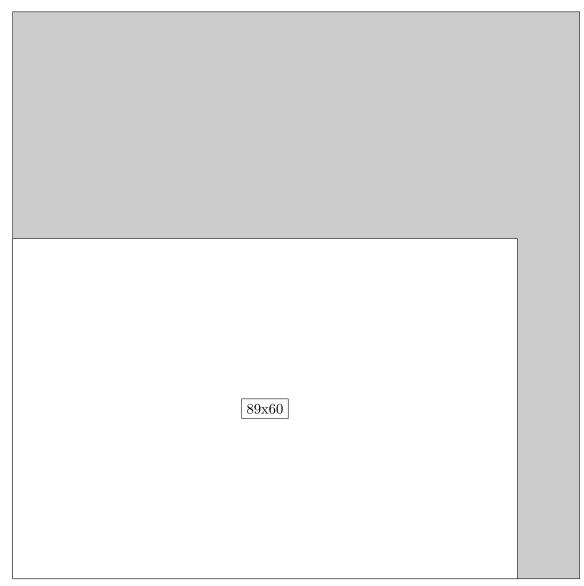
 $\le =96$  , h=58 , x=0 , y=0 , v=5568



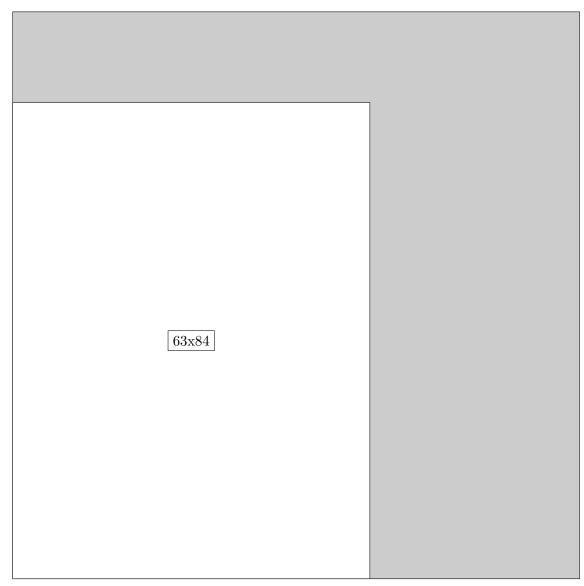
$$\begin{array}{c} w = 62 \; , \; h = 89 \; , \; x = 0 \; , \; y = 0 \; , \; v = 5518 \\ w = 37 \; , \; h = 25 \; , \; x = 62 \; , \; y = 0 \; , \; v = 925 \\ \end{array}$$



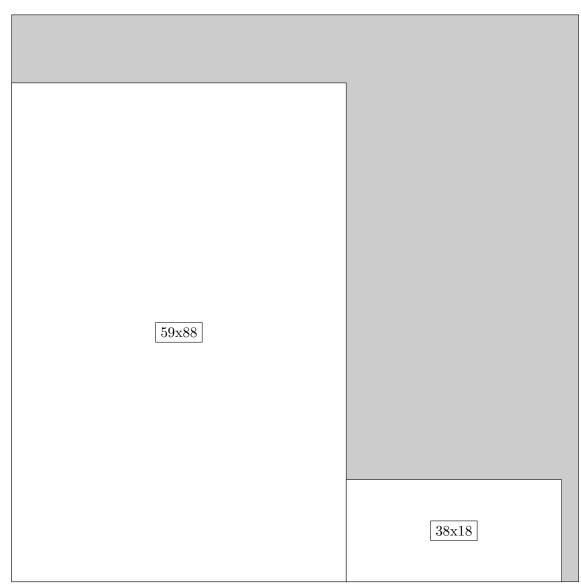
$$\begin{array}{c} w = \!\!65 \; , \; h = \!\!83 \; , \; x = \!\!0 \; , \; y = \!\!0 \; , \; v = \!\!5395 \\ w = \!\!28 \; , \; h = \!\!76 \; , \; x = \!\!65 \; , \; y = \!\!0 \; , \; v = \!\!2128 \\ \end{array}$$

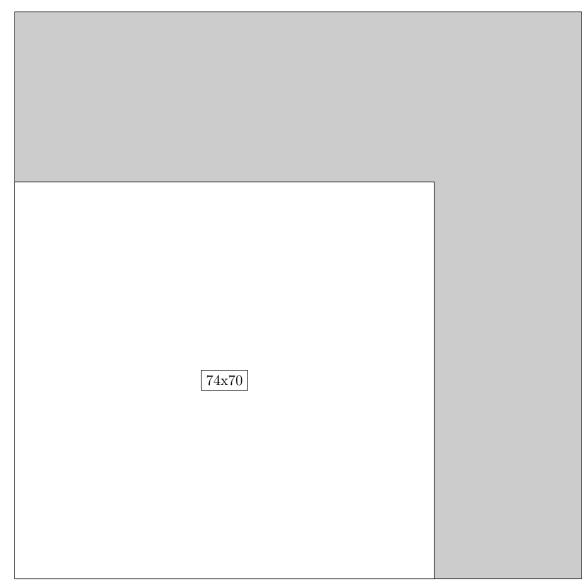


 $\le =89$  , h =60 , x =0 , y =0 , v =5340

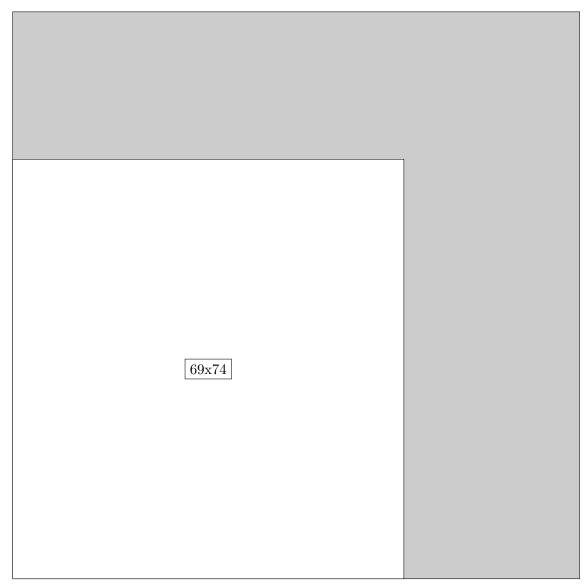


w = 63, h = 84, x = 0, y = 0, v = 5292





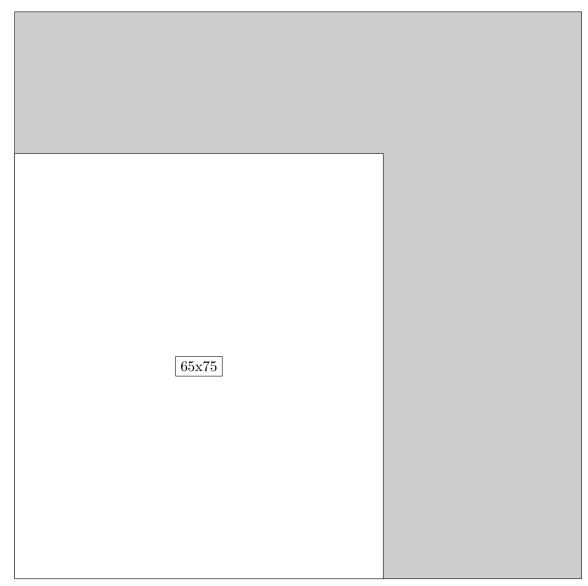
w = 74, h = 70, x = 0, y = 0, v = 5180



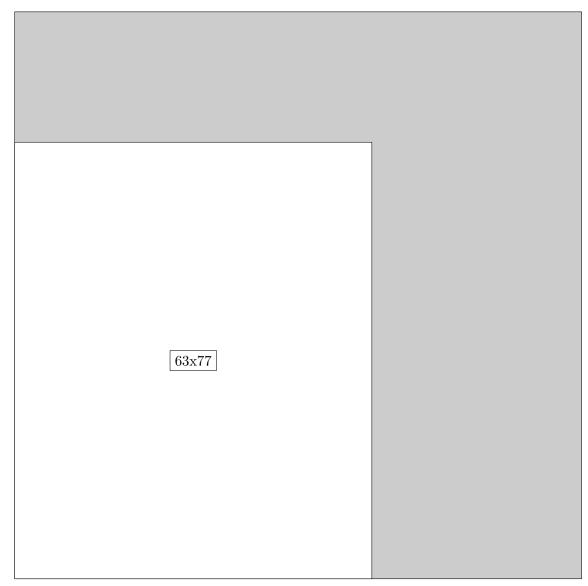
w = 69, h = 74, x = 0, y = 0, v = 5106



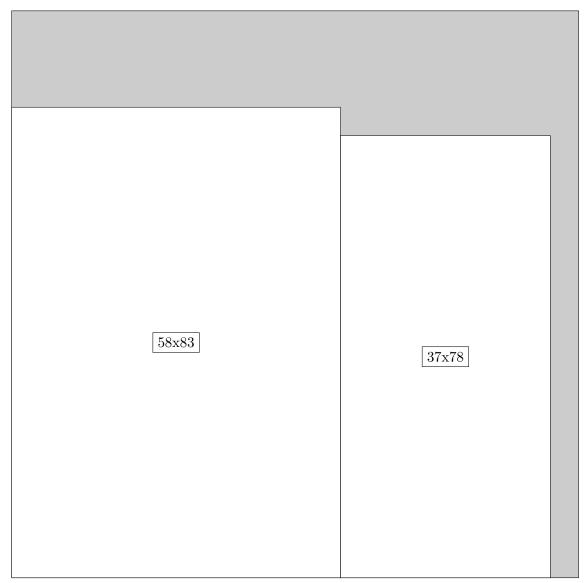
w = 74, h = 67, x = 0, y = 0, v = 4958

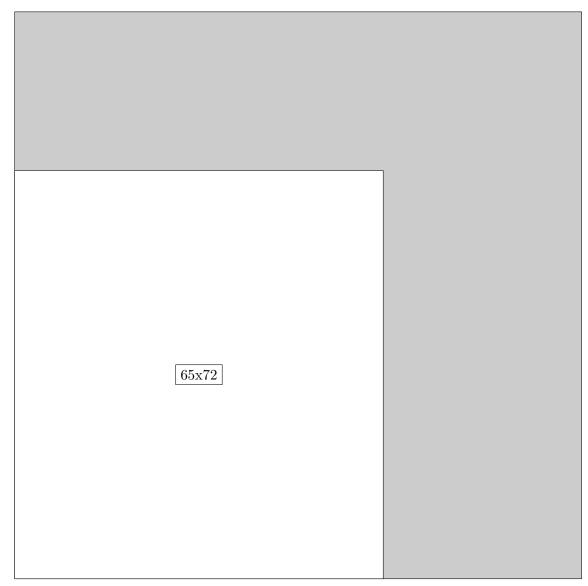


w = 65, h = 75, x = 0, y = 0, v = 4875

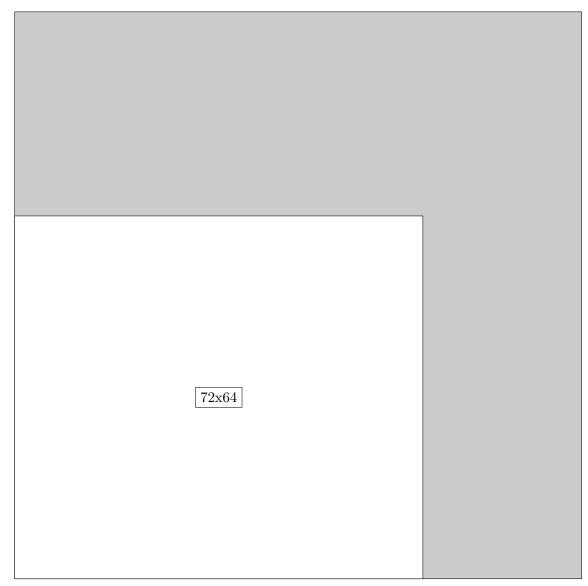


w = 63, h = 77, x = 0, y = 0, v = 4851

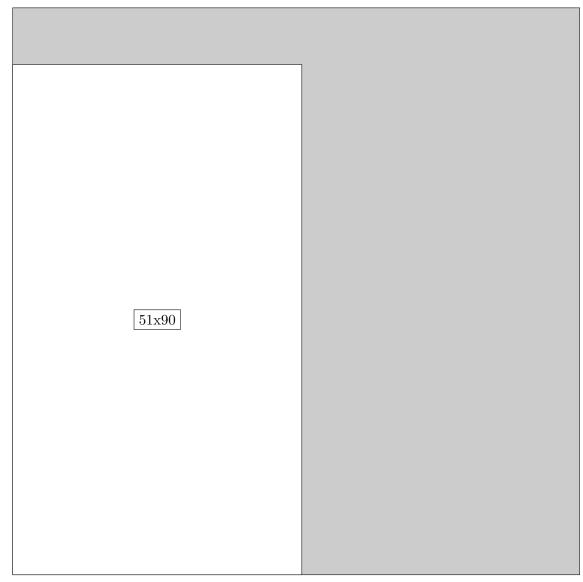




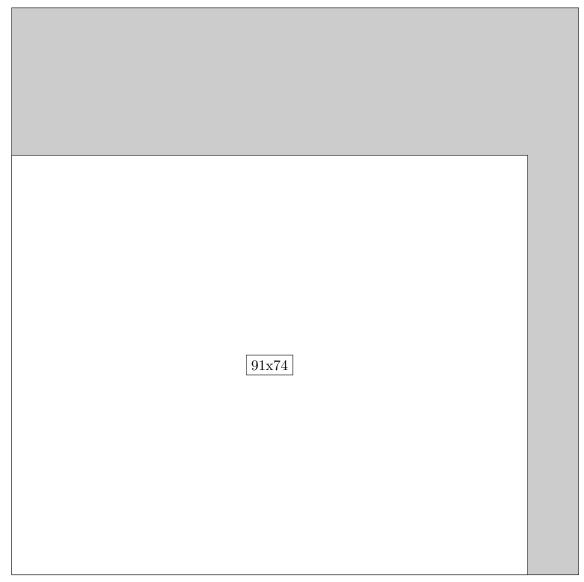
w = 65, h = 72, x = 0, y = 0, v = 4680



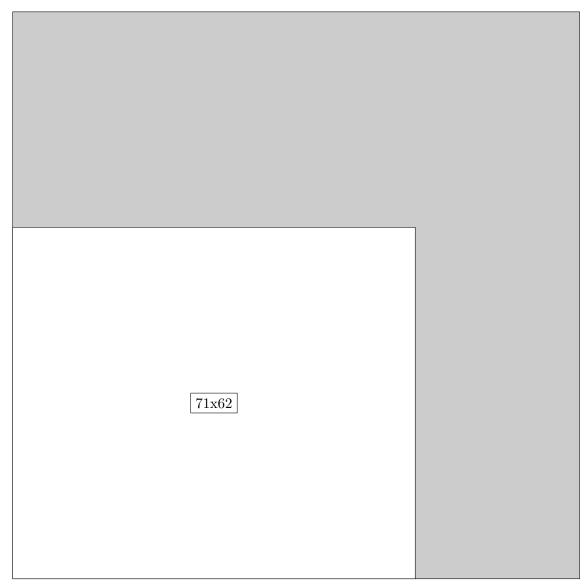
w = 72, h = 64, x = 0, y = 0, v = 4608



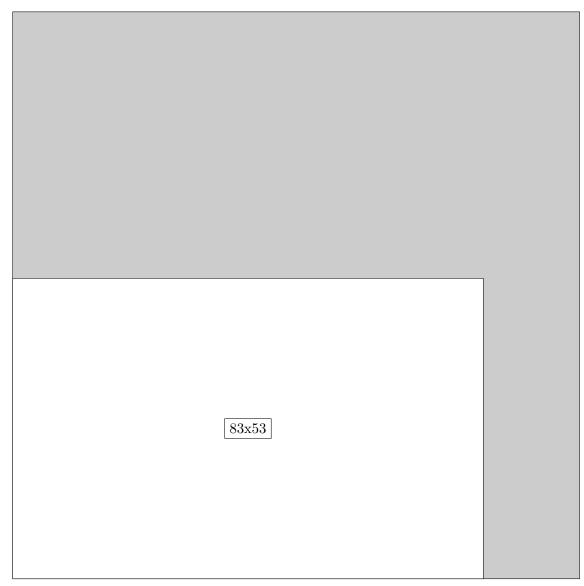
 $\overline{w} = 51$ , h = 90, x = 0, y = 0, v = 4590



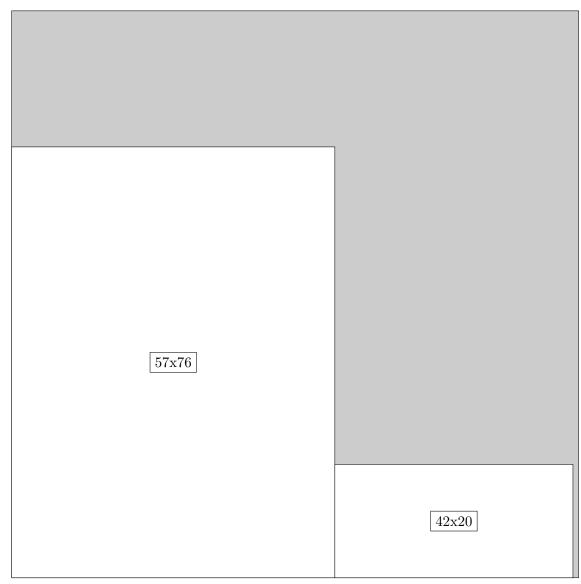
 $\mathbf{w}$  =91 , h =74 , x =0 , y =0 , v =6734

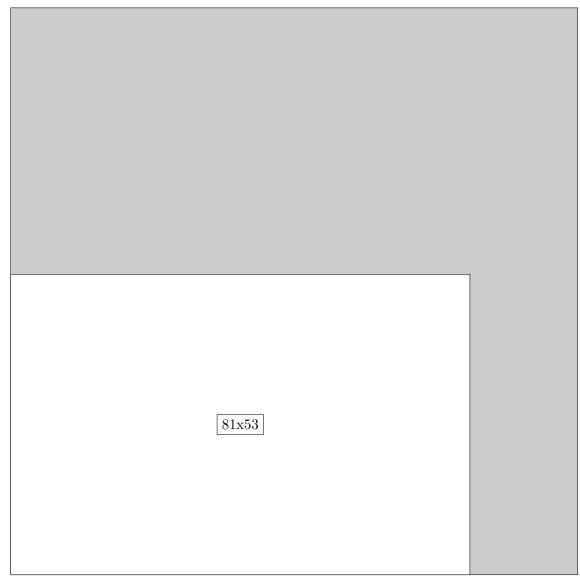


w = 71, h = 62, x = 0, y = 0, v = 4402

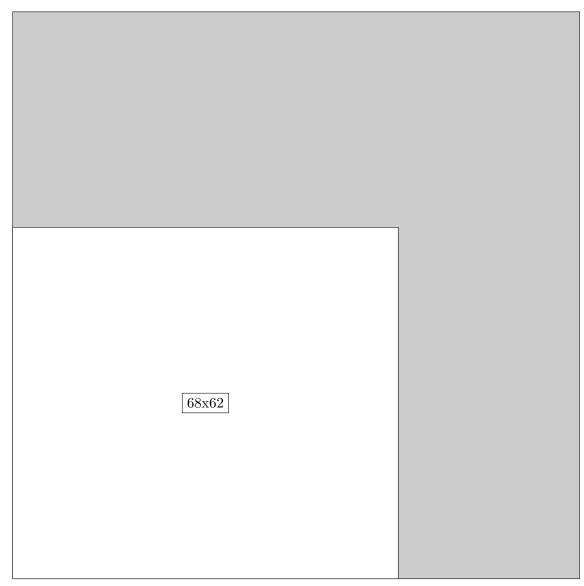


 $\le =83$  , h =53 , x =0 , y =0 , v =4399

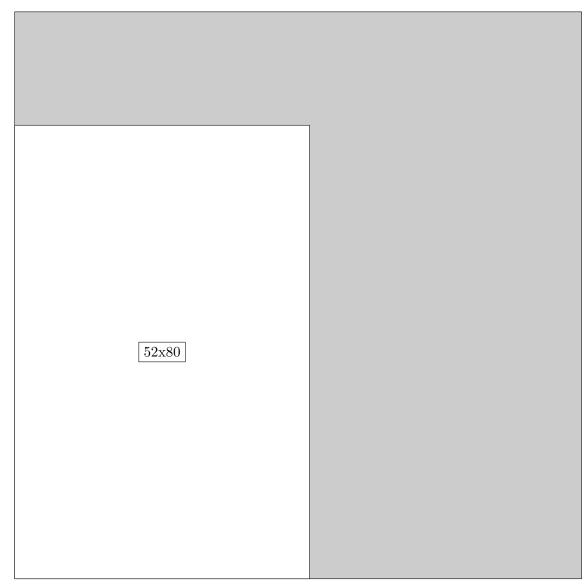




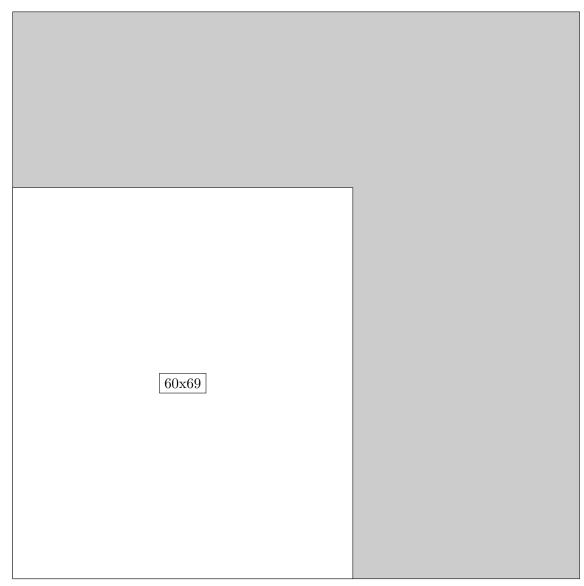
w = 81, h = 53, x = 0, y = 0, v = 4293



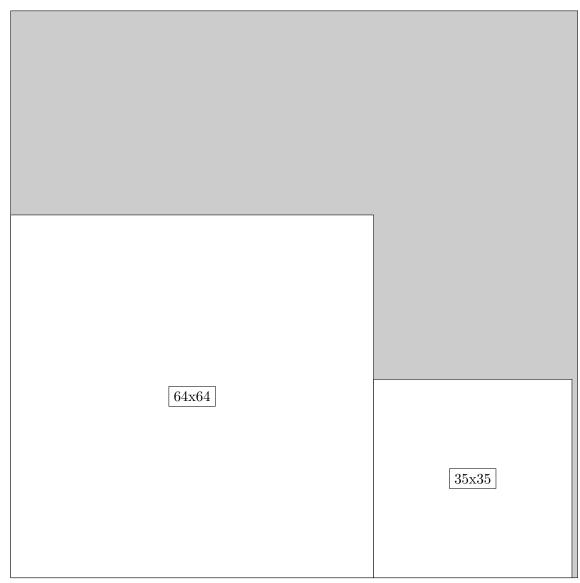
w = 68, h = 62, x = 0, y = 0, v = 4216

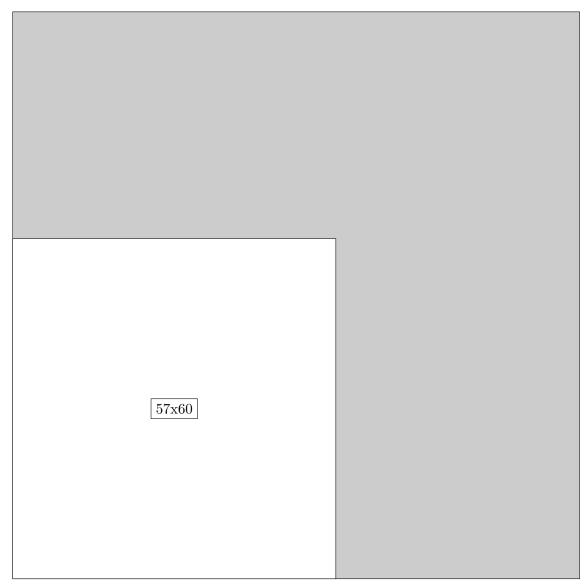


w = 52, h = 80, x = 0, y = 0, v = 4160

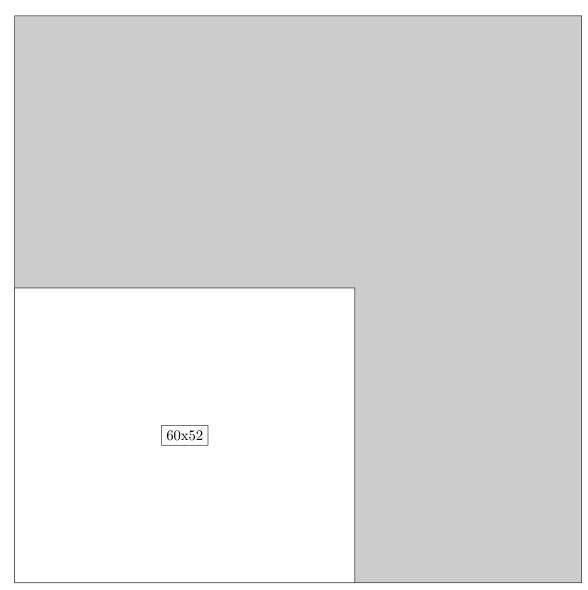


w = 60, h = 69, x = 0, y = 0, v = 4140

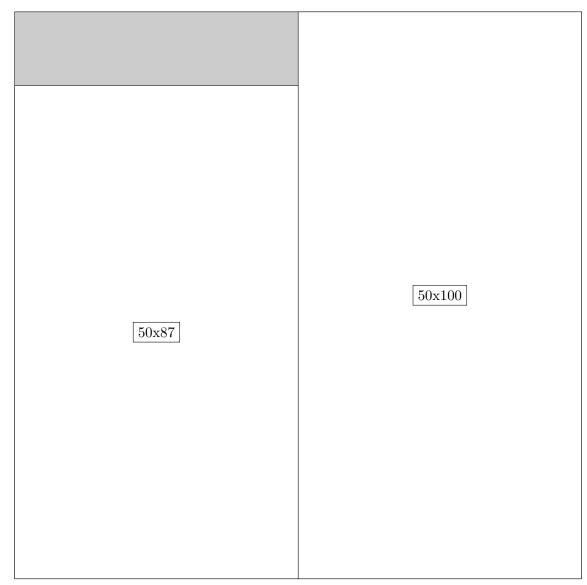




w = 57, h = 60, x = 0, y = 0, v = 3420



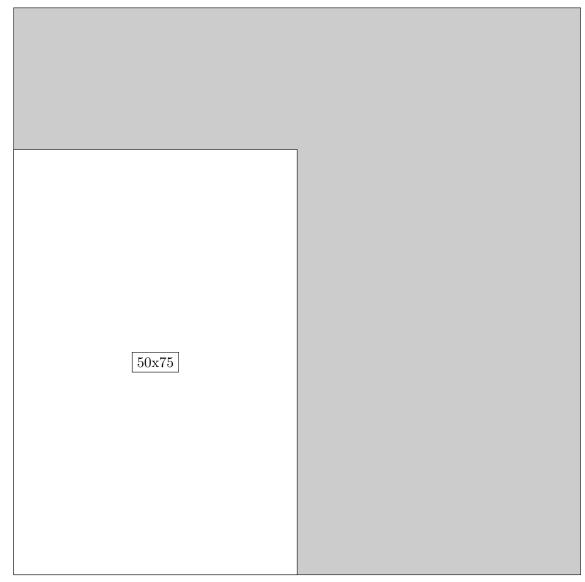
w = 60, h = 52, x = 0, y = 0, v = 3120



w =50, h =100, x =50, y =0, v =5000 w =50, h =87, x =0, y =0, v =4350



$$\begin{array}{l} w = \!\! 75 \ , \ h = \!\! 50 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 3750 \\ w = \!\! 55 \ , \ h = \!\! 50 \ , \ x = \!\! 0 \ , \ y = \!\! 50 \ , \ v = \!\! 2750 \end{array}$$



 $\overline{w} = 50$ , h = 75, x = 0, y = 0, v = 3750