$ClassName: \ Class_09.2bp-45$

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

TypeNum: <u>100</u> Num: <u>100</u> OutS: <u>710000</u> InS: <u>459457</u> Rate: <u>0.647</u> UB: <u>71</u>

UB: <u>71</u> LB0: <u>71</u> LB: **71**

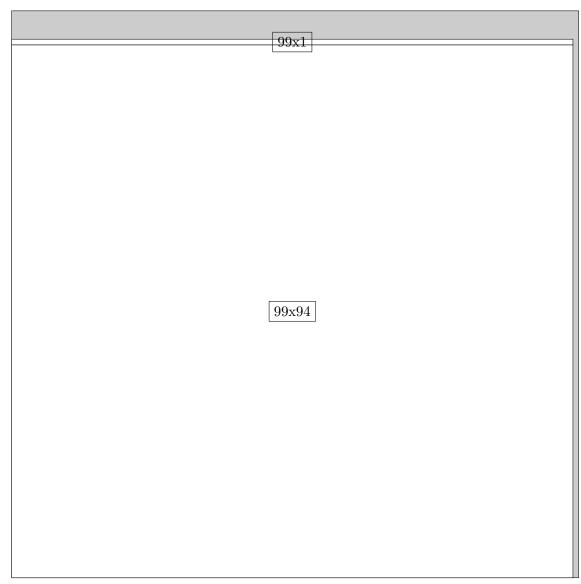
LBWithCut: $\underline{71}$ NodeCut: $\underline{0}$

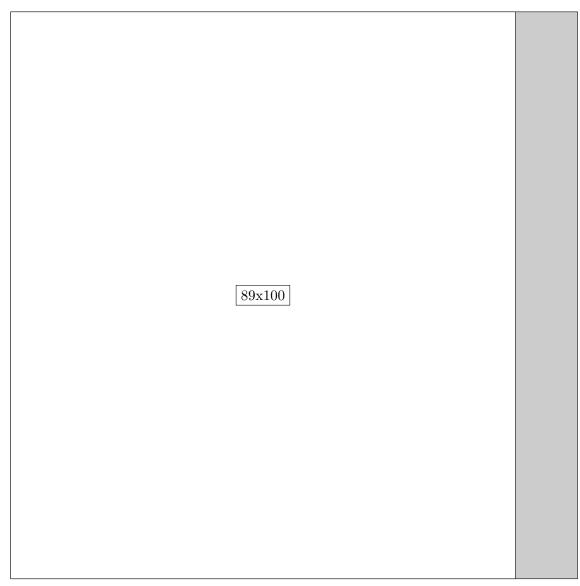
ExtendedNodeCnt: $\underline{\mathbf{1}}$

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{71}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

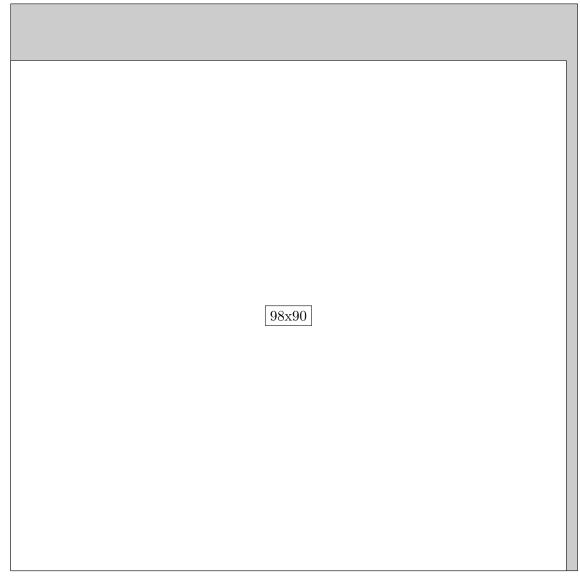
isOpt: **true**

TimeOnInitSolution: 0.460 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.600 s

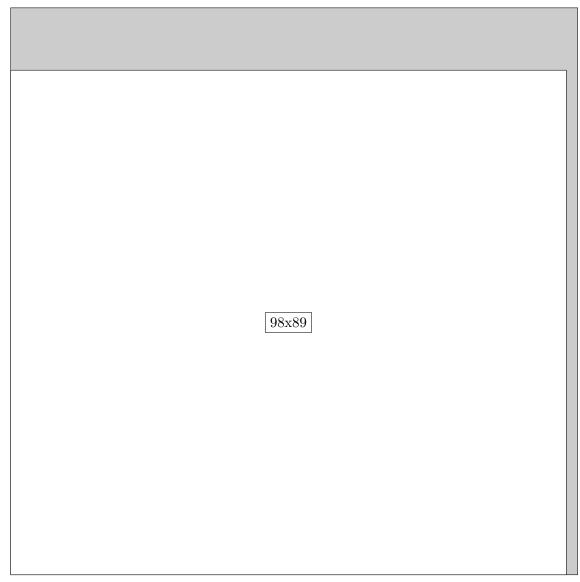




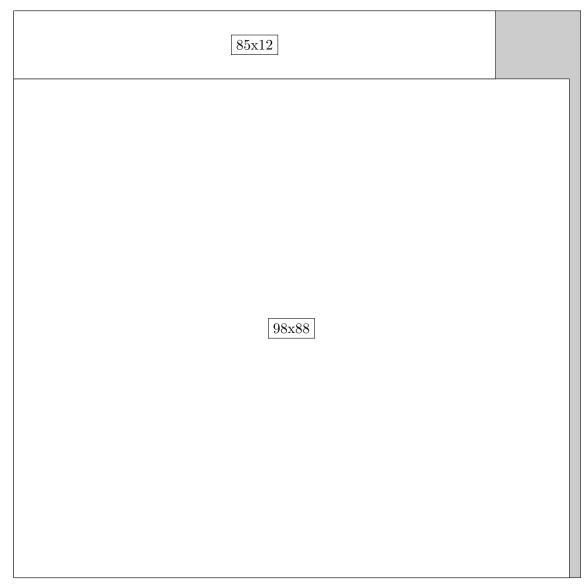
 $\le =89$, h =100 , x =0 , y =0 , v =8900

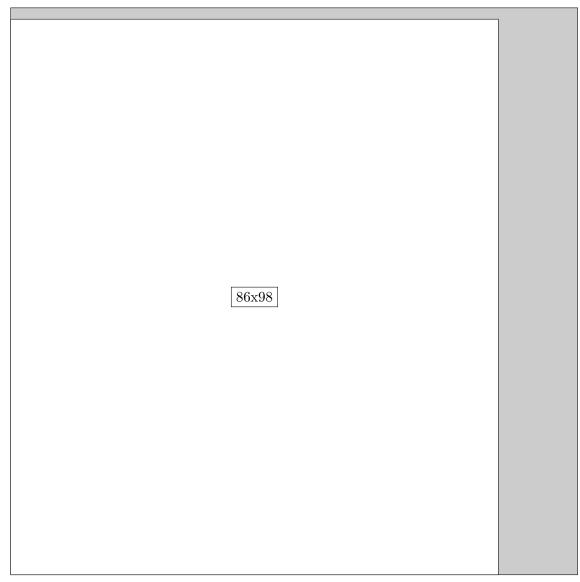


 $\le =98$, h =90 , x =0 , y =0 , v =8820

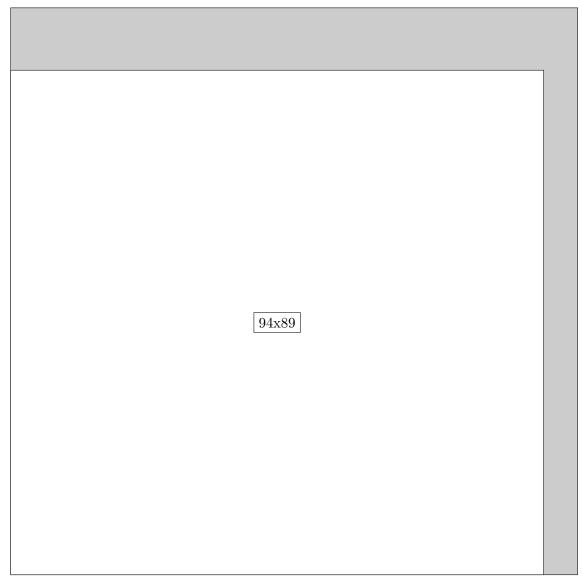


 $\le =98$, h =89 , x =0 , y =0 , v =8722

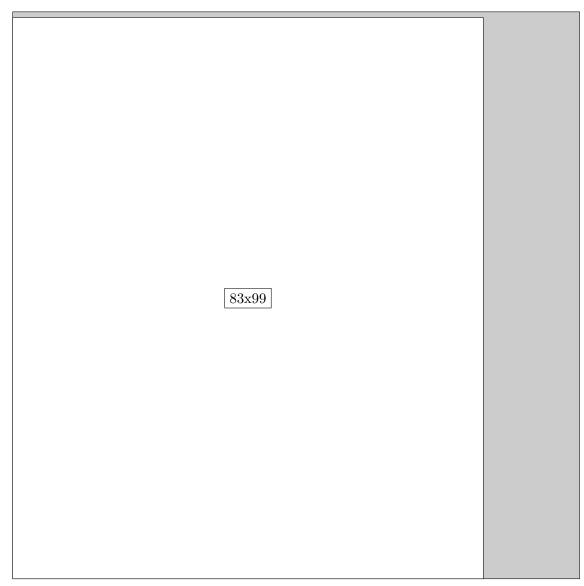




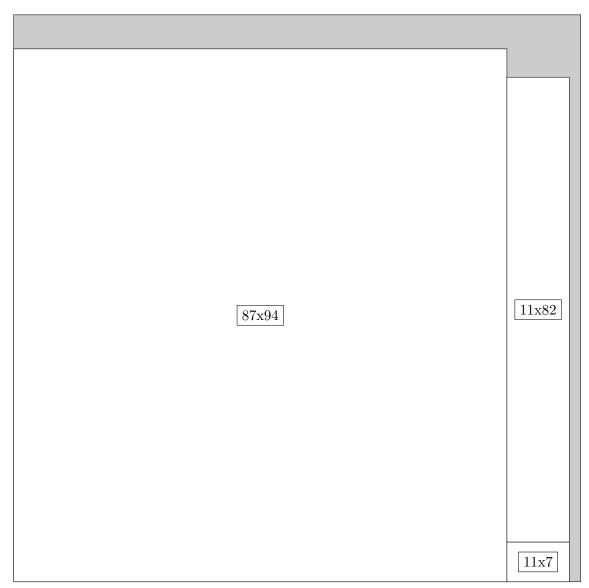
 $\le =86$, h =98 , x =0 , y =0 , v =8428



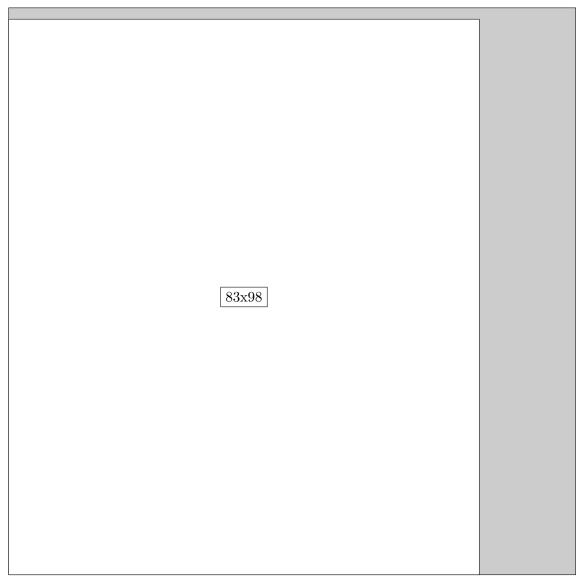
 $\le =94$, h =89 , x =0 , y =0 , v =8366



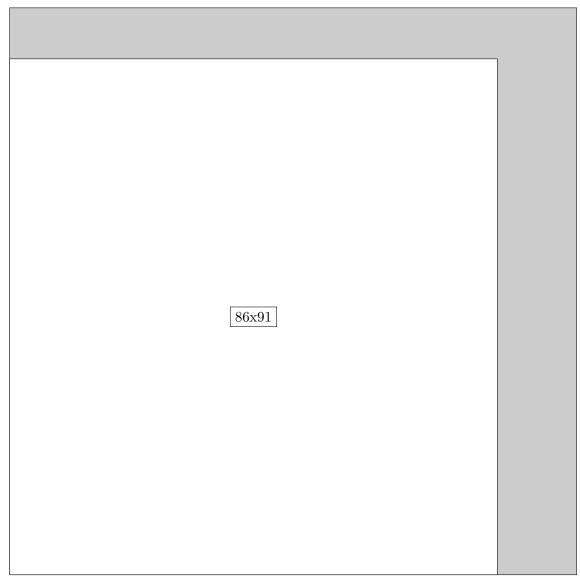
 $\le =83$, h =99 , x =0 , y =0 , v =8217



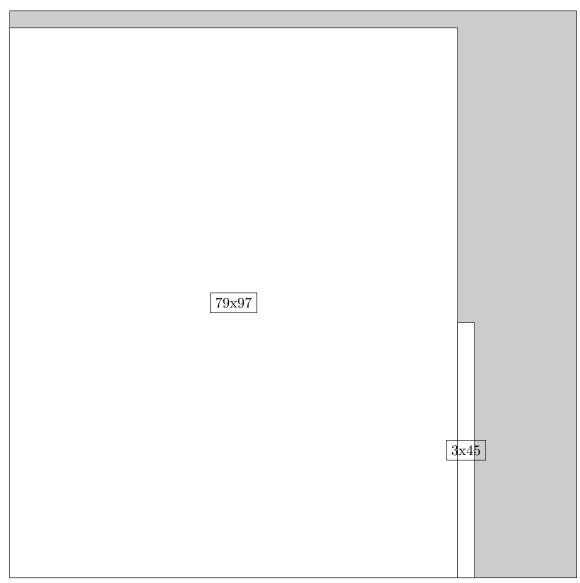
$$\begin{array}{l} w = \! 87 \; , \; h = \! 94 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 8178 \\ w = \! 11 \; , \; h = \! 82 \; , \; x = \! 87 \; , \; y = \! 7 \; , \; v = \! 902 \\ w = \! 11 \; , \; h = \! 7 \; , \; x = \! 87 \; , \; y = \! 0 \; , \; v = \! 77 \end{array}$$



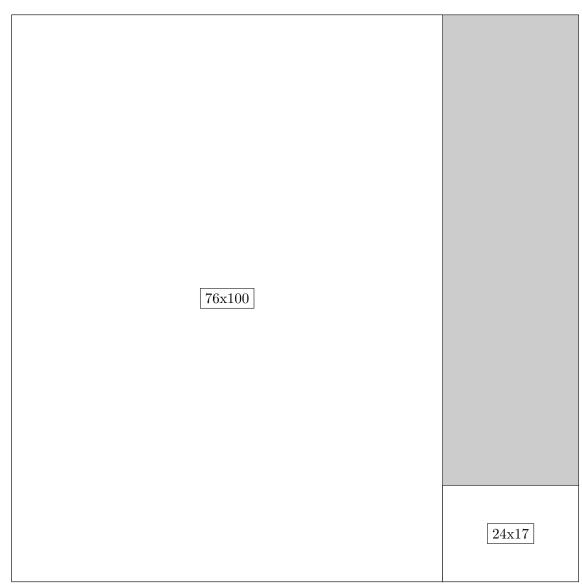
 $\le =83$, h =98 , x =0 , y =0 , v =8134

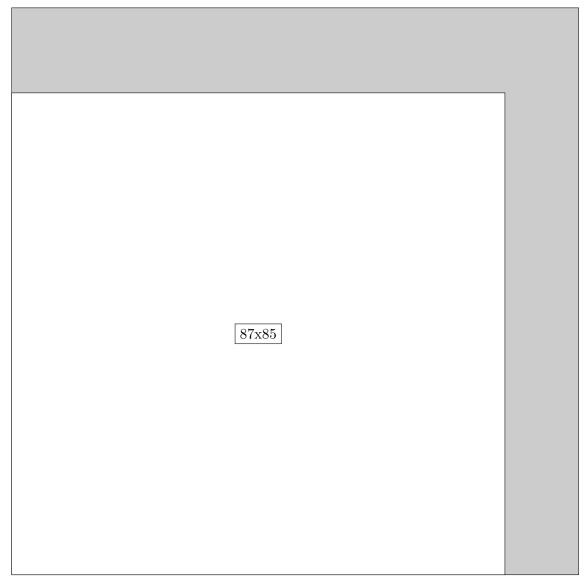


 $\le =86$, h =91 , x =0 , y =0 , v =7826

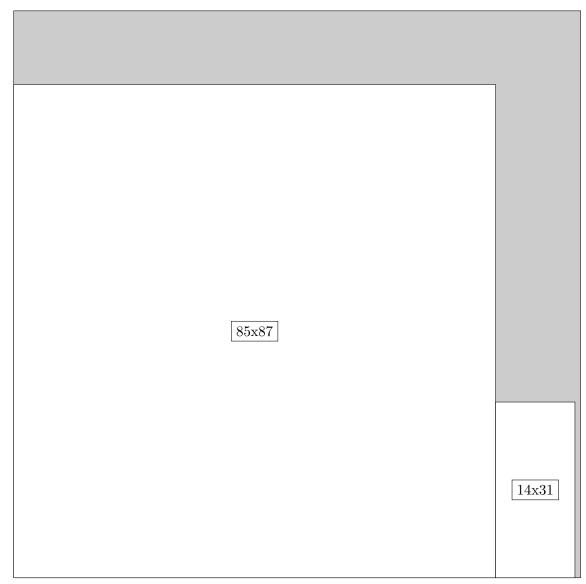


 $\begin{array}{l} w = 79 \ , \ h = 97 \ , \ x = 0 \ , \ y = 0 \ , \ v = 7663 \\ w = 3 \ , \ h = 45 \ , \ x = 79 \ , \ y = 0 \ , \ v = 135 \end{array}$

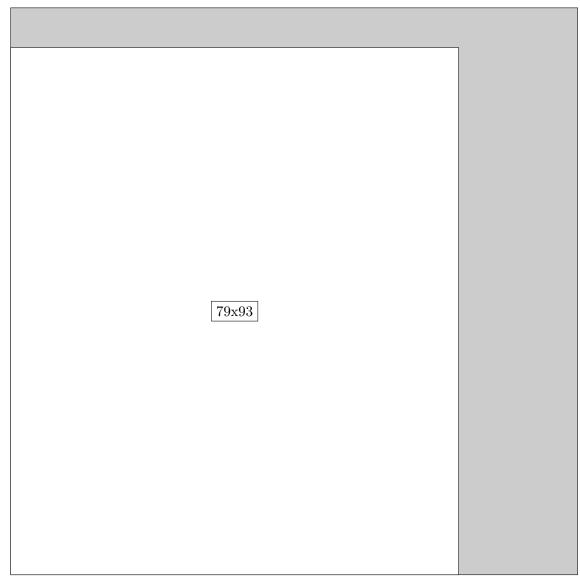




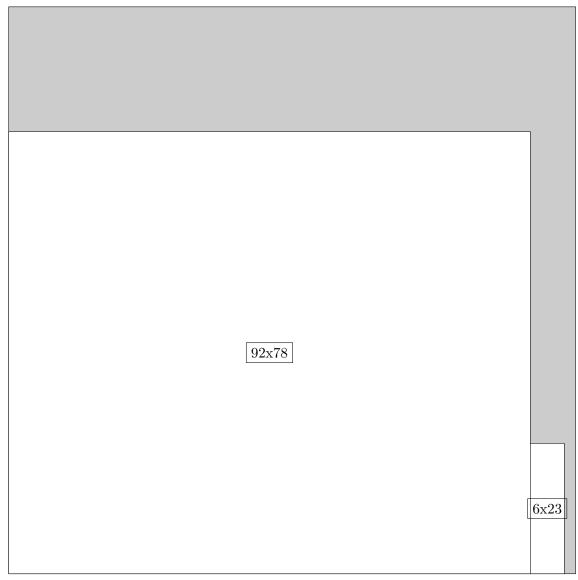
w = 87, h = 85, x = 0, y = 0, v = 7395



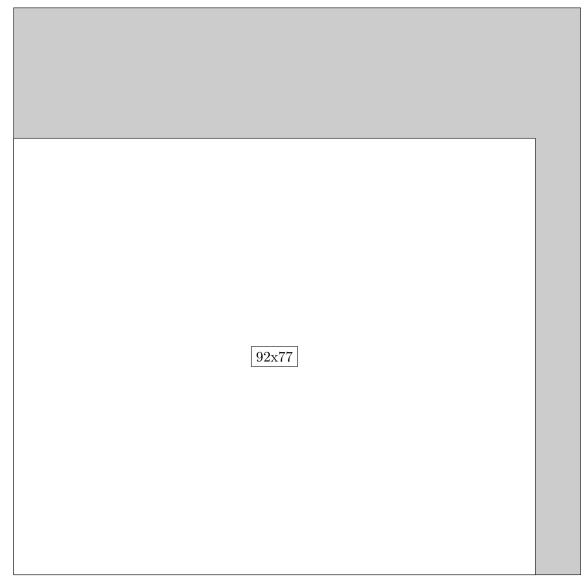
$$\begin{array}{c} w = \! 85 \; , \; h = \! 87 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 7395 \\ w = \! 14 \; , \; h = \! 31 \; , \; x = \! 85 \; , \; y = \! 0 \; , \; v = \! 434 \\ \end{array}$$



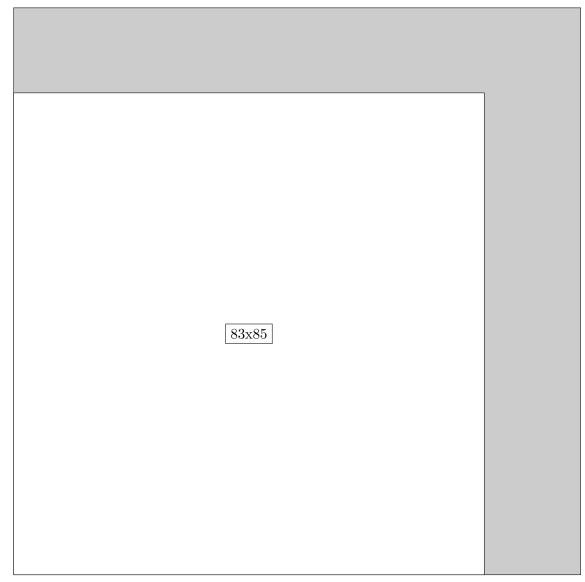
 \mathbf{w} =79 , h =93 , x =0 , y =0 , v =7347



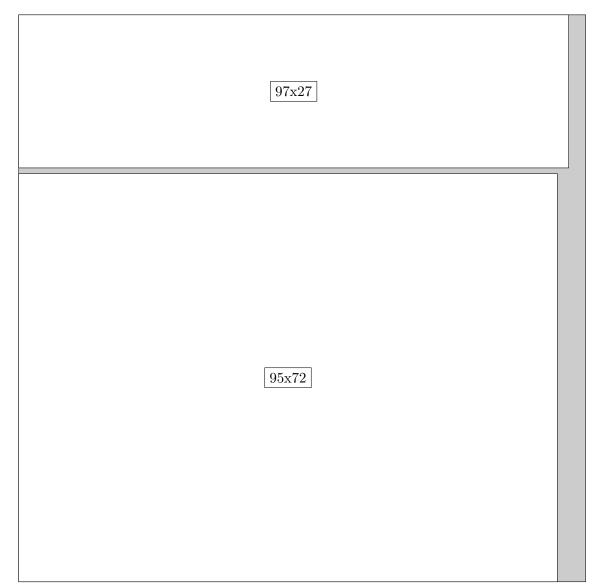
 $\begin{array}{l} w = \! 92 \ , \ h = \! 78 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 7176 \\ w = \! 6 \ , \ h = \! 23 \ , \ x = \! 92 \ , \ y = \! 0 \ , \ v = \! 138 \end{array}$

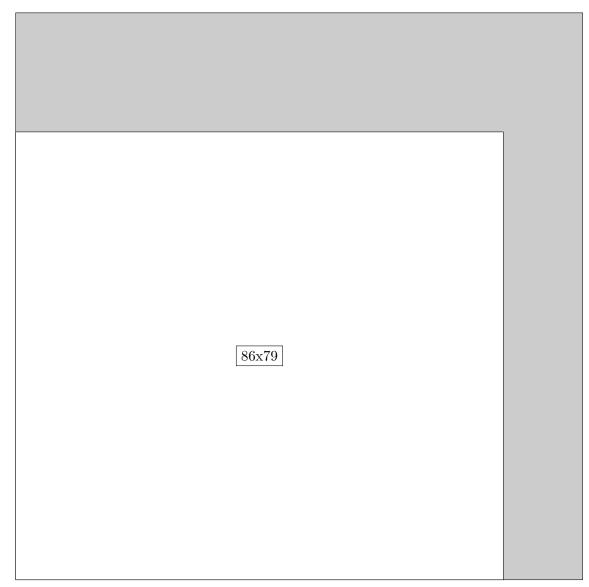


 $\le =92$, h =77 , x =0 , y =0 , v =7084

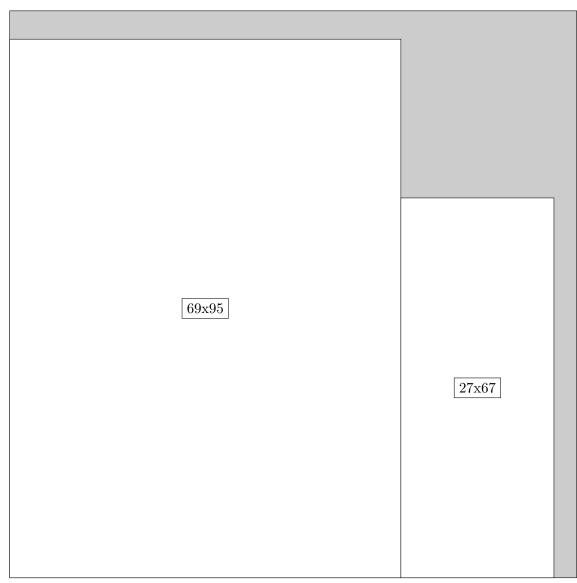


 $\le =83$, h =85 , x =0 , y =0 , v =7055

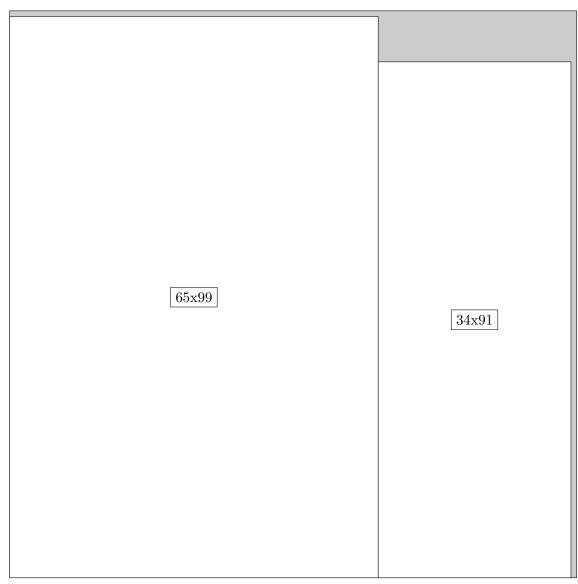


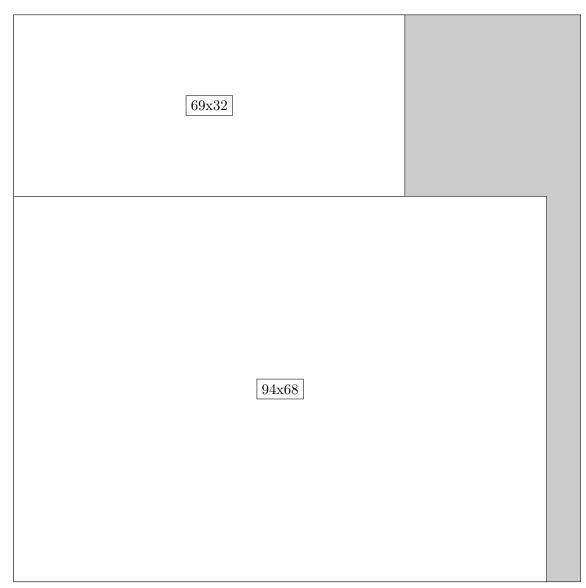


 $\le =86$, h =79 , x =0 , y =0 , v =6794



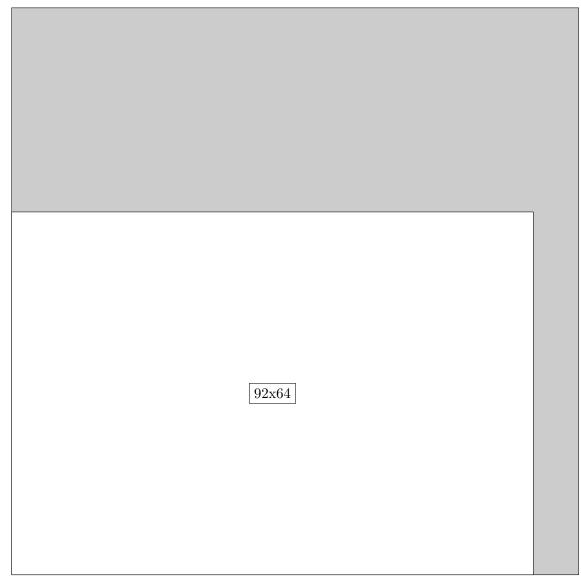
$$\begin{array}{c} w = 69 \; , \; h = 95 \; , \; x = 0 \; , \; y = 0 \; , \; v = 6555 \\ w = 27 \; , \; h = 67 \; , \; x = 69 \; , \; y = 0 \; , \; v = 1809 \end{array}$$



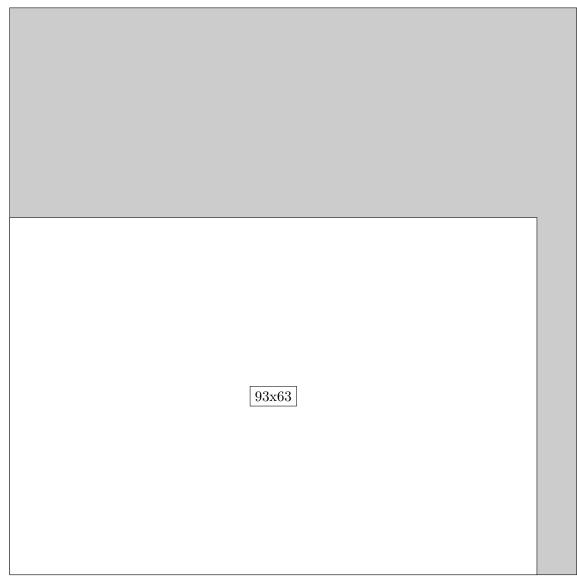




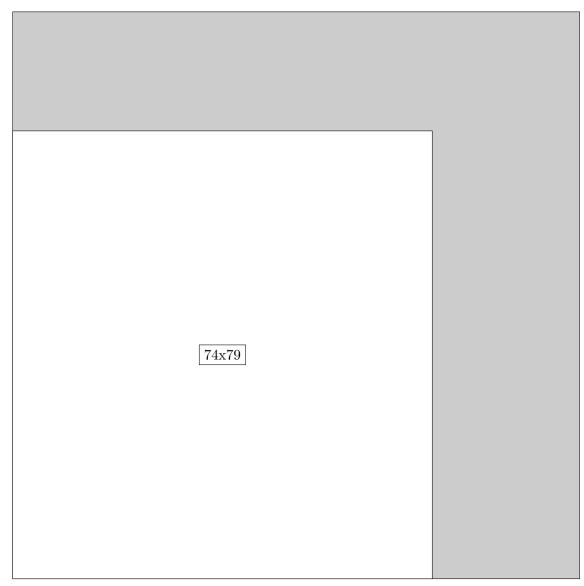
$$\begin{array}{c} w = 99 \ , \ h = 62 \ , \ x = 0 \ , \ y = 0 \ , \ v = 6138 \\ w = 77 \ , \ h = 30 \ , \ x = 0 \ , \ y = 62 \ , \ v = 2310 \\ \end{array}$$



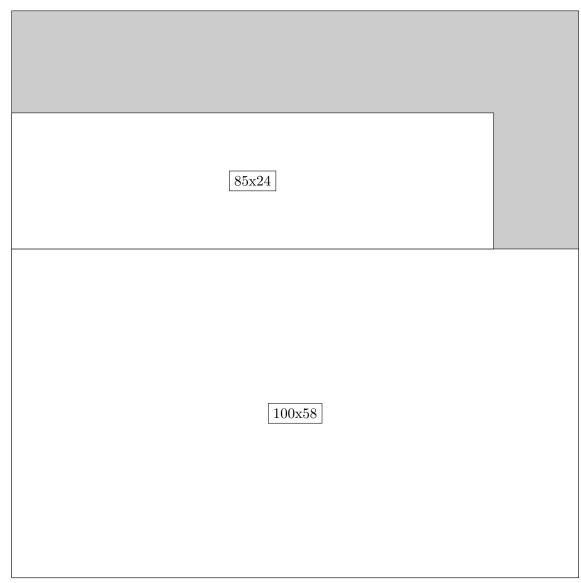
w = 92, h = 64, x = 0, y = 0, v = 5888



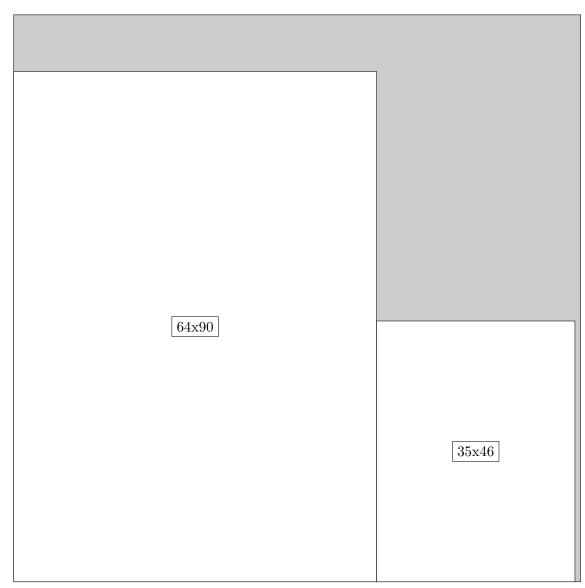
 $\overline{\mathrm{w}} = 93$, $\mathrm{h} = 63$, $\mathrm{x} = 0$, $\mathrm{y} = 0$, $\mathrm{v} = 5859$

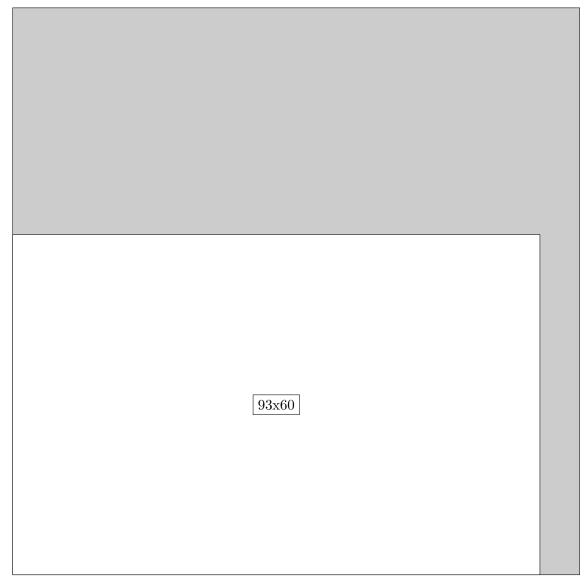


w = 74, h = 79, x = 0, y = 0, v = 5846

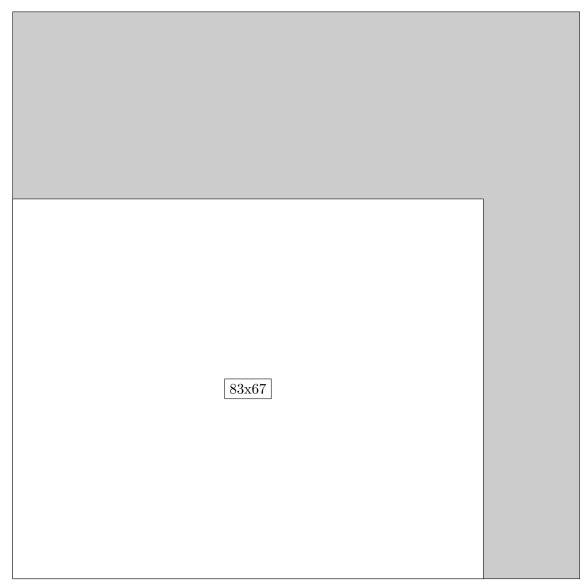


$$\begin{array}{l} w = \! 100 \ , \ h = \! 58 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 5800 \\ w = \! 85 \ , \ h = \! 24 \ , \ x = \! 0 \ , \ y = \! 58 \ , \ v = \! 2040 \end{array}$$

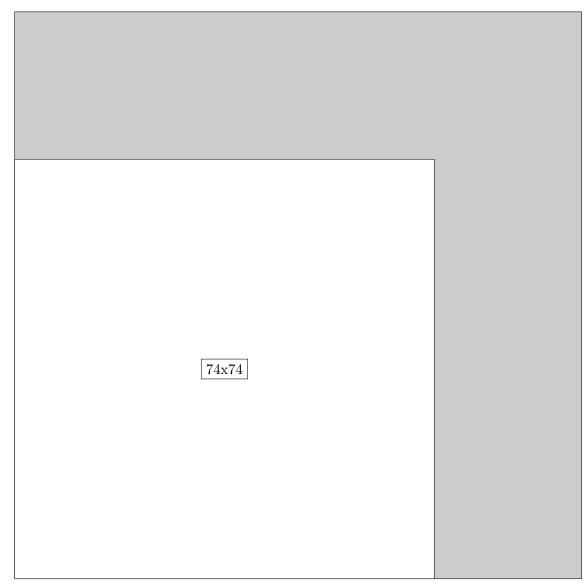




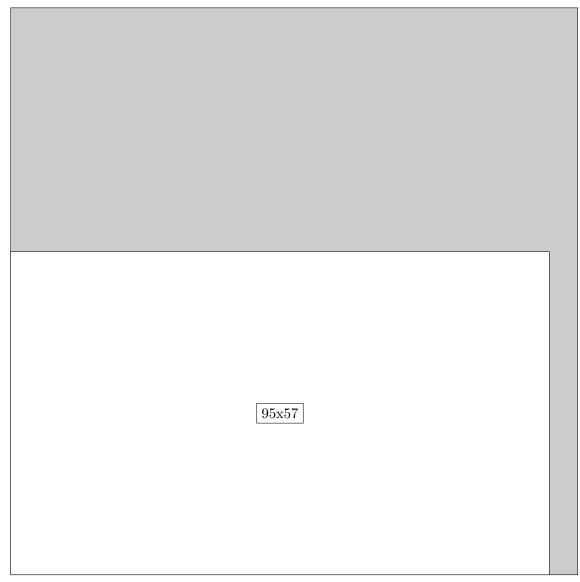
w = 93, h = 60, x = 0, y = 0, v = 5580



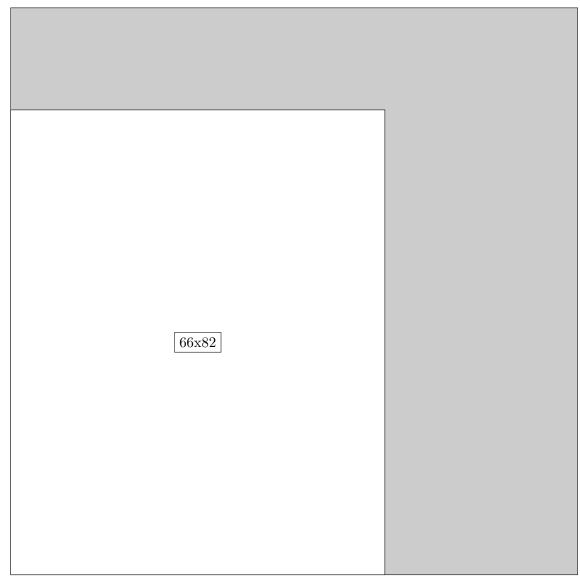
 $\le =83$, h =67 , x =0 , y =0 , v =5561



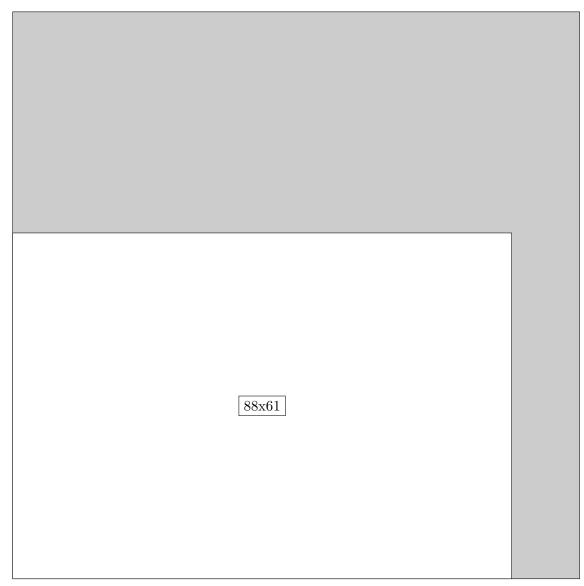
w = 74, h = 74, x = 0, y = 0, v = 5476



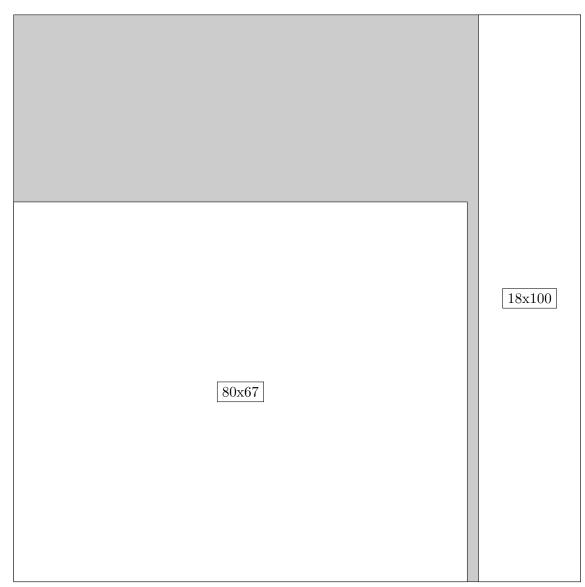
 $\le =95$, h =57 , x =0 , y =0 , v =5415

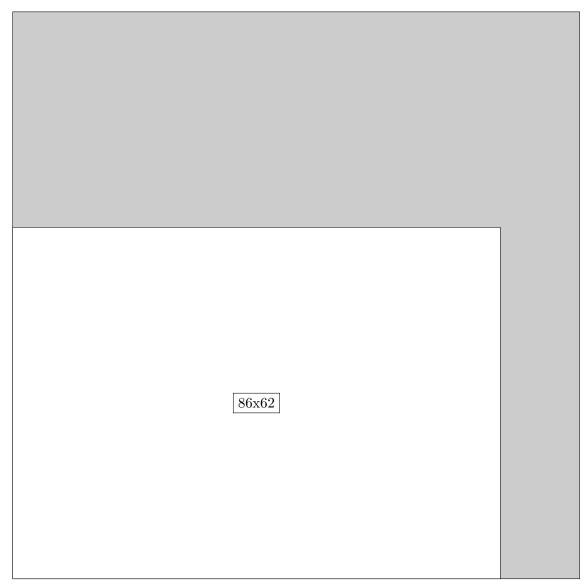


w = 66, h = 82, x = 0, y = 0, v = 5412

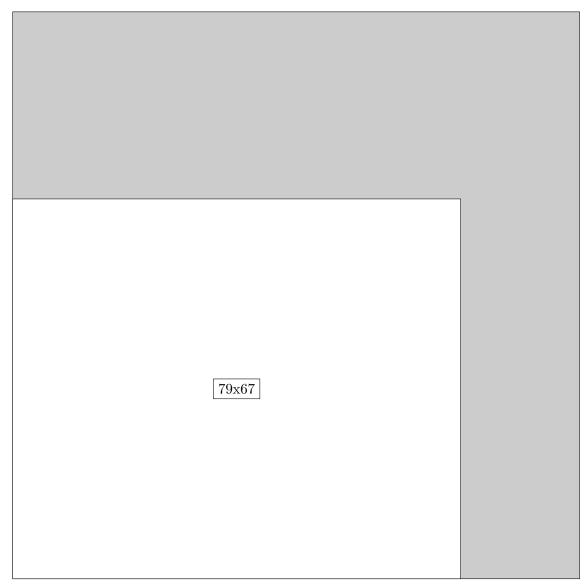


 $\le =88$, h =61 , x =0 , y =0 , v =5368

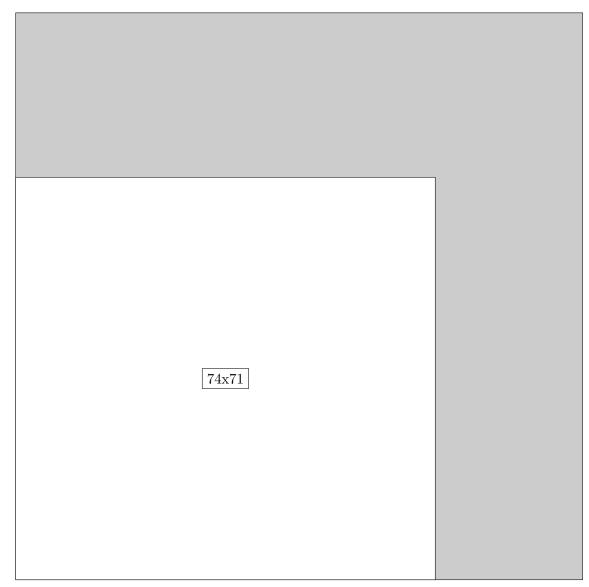




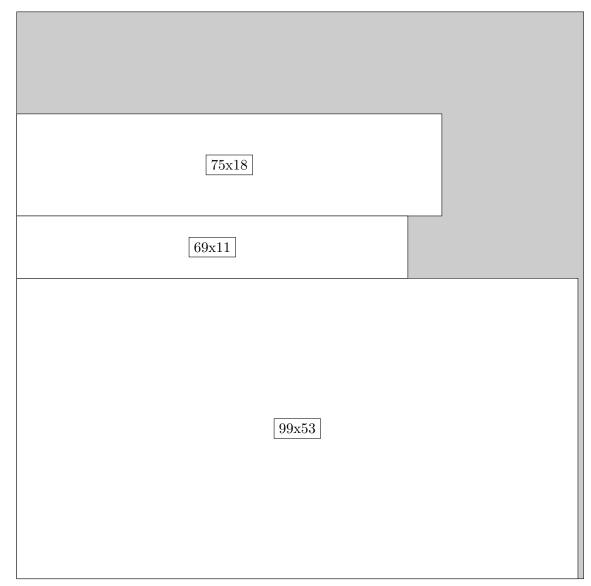
 $\le =86$, h =62 , x =0 , y =0 , v =5332



w = 79, h = 67, x = 0, y = 0, v = 5293



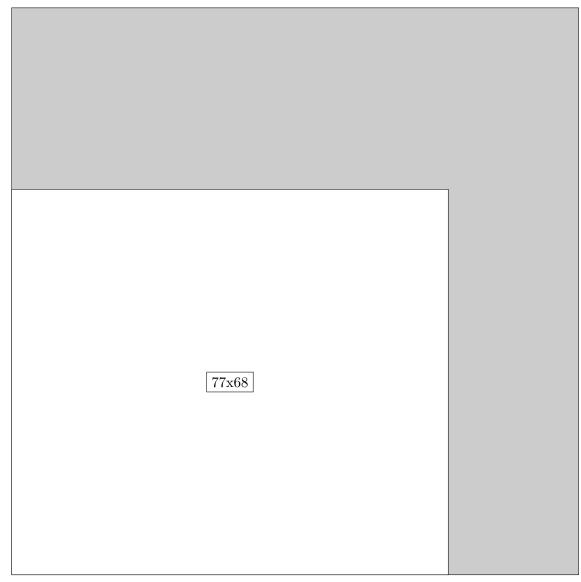
 \mathbf{w} =74 , h =71 , x =0 , y =0 , v =5254



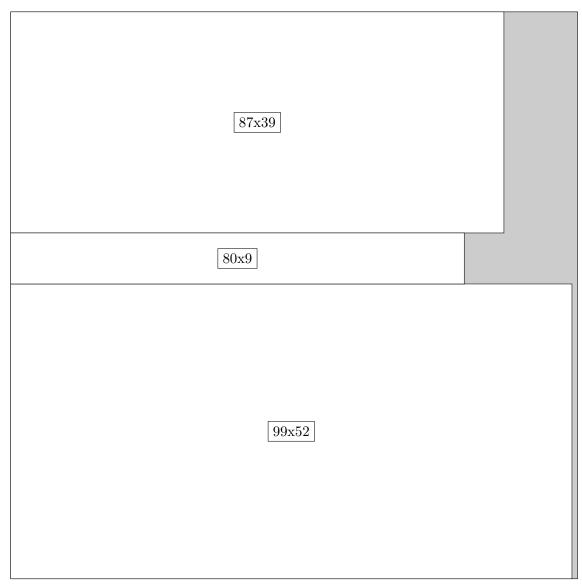
$$w = 99$$
, $h = 53$, $x = 0$, $y = 0$, $v = 5247$

$$\le =75$$
 , h =18 , x =0 , y =64 , v =1350

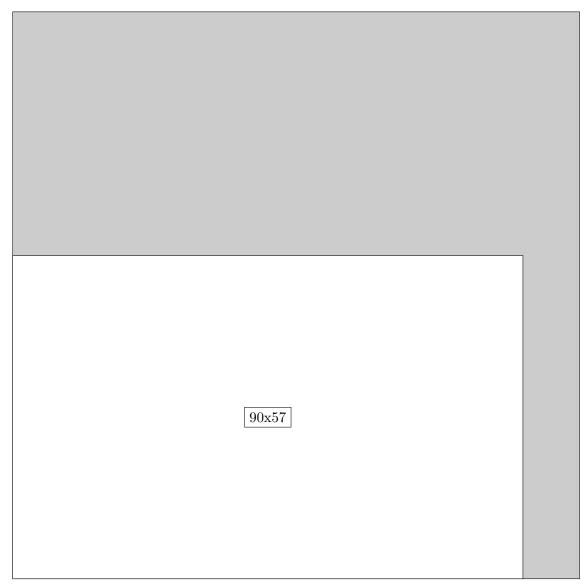
$$\le =69$$
 , h =11 , x =0 , y =53 , v =759



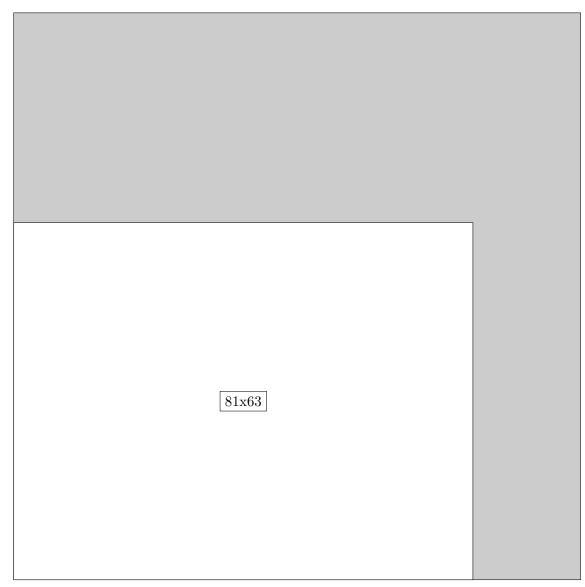
w = 77, h = 68, x = 0, y = 0, v = 5236



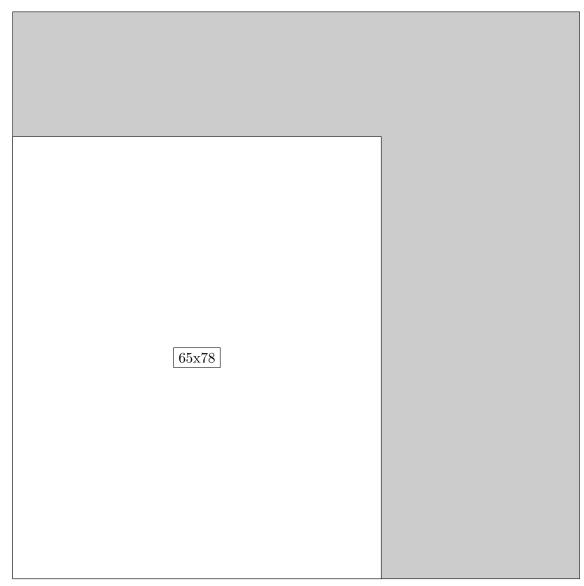
$$\begin{array}{l} w = 99 \ , \ h = 52 \ , \ x = 0 \ , \ y = 0 \ , \ v = 5148 \\ w = 87 \ , \ h = 39 \ , \ x = 0 \ , \ y = 61 \ , \ v = 3393 \\ w = 80 \ , \ h = 9 \ , \ x = 0 \ , \ y = 52 \ , \ v = 720 \end{array}$$



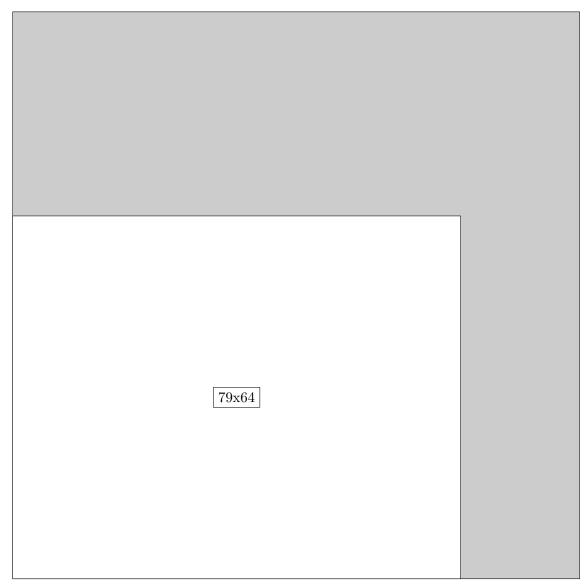
 $\le =90$, h =57 , x =0 , y =0 , v =5130



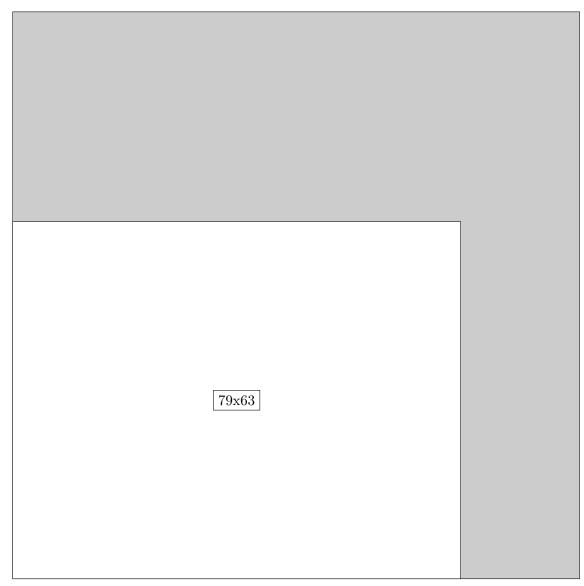
w = 81, h = 63, x = 0, y = 0, v = 5103



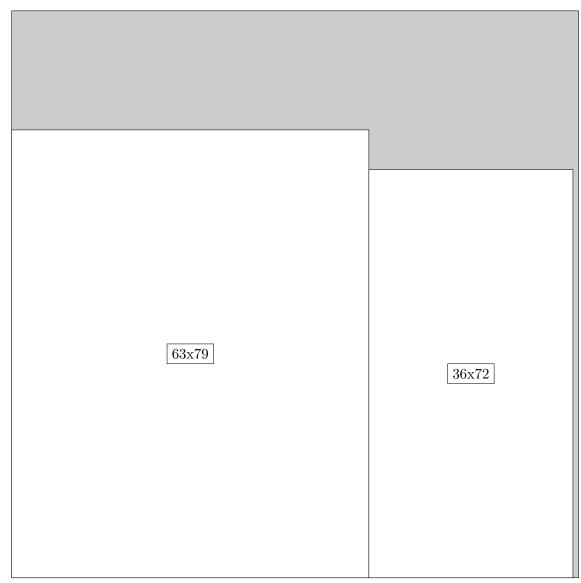
w = 65, h = 78, x = 0, y = 0, v = 5070

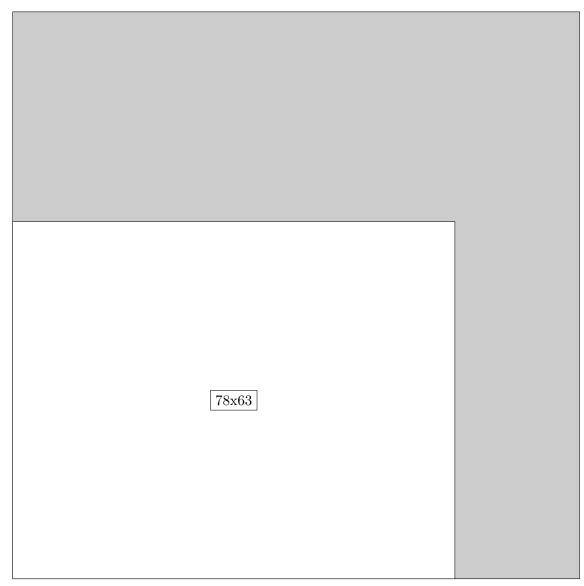


w = 79, h = 64, x = 0, y = 0, v = 5056

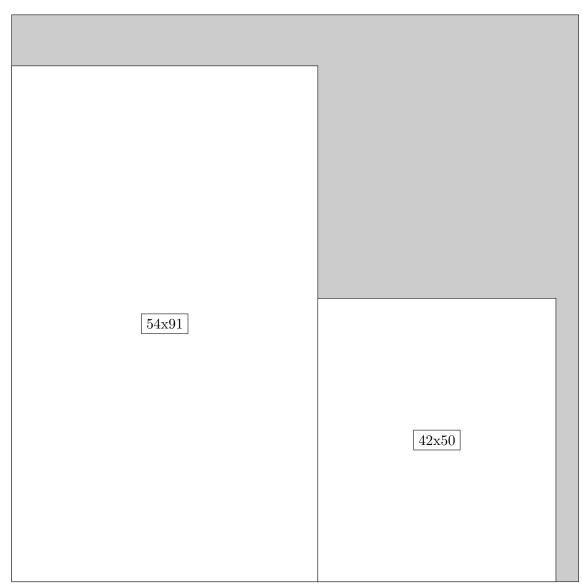


w = 79, h = 63, x = 0, y = 0, v = 4977

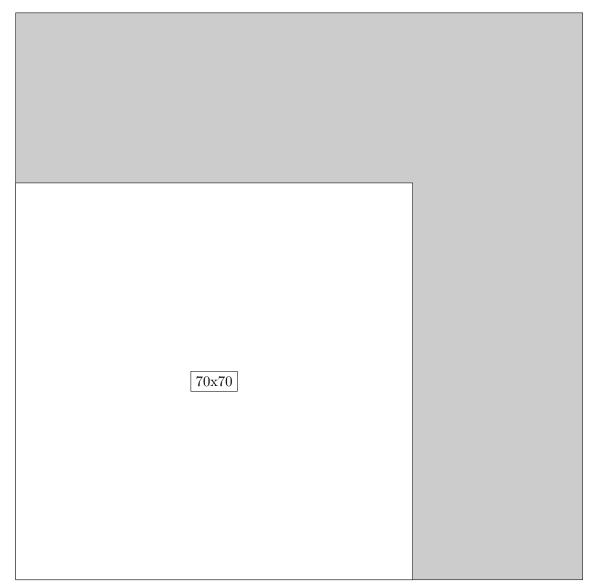




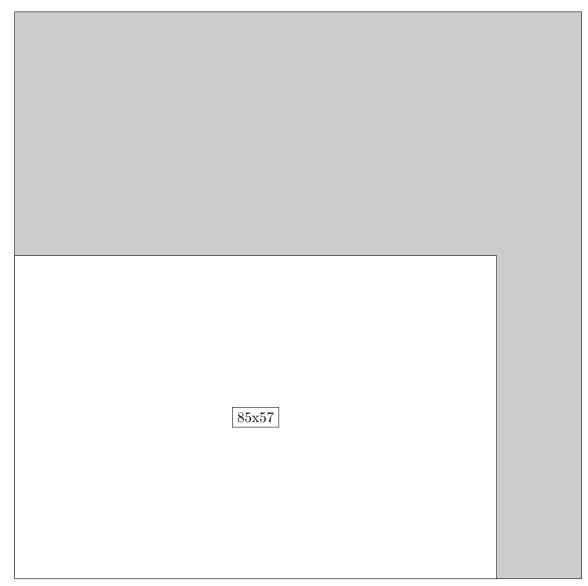
w = 78, h = 63, x = 0, y = 0, v = 4914



$$\begin{array}{c} w = \!\! 54 \; , \; h = \!\! 91 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 4914 \\ w = \!\! 42 \; , \; h = \!\! 50 \; , \; x = \!\! 54 \; , \; y = \!\! 0 \; , \; v = \!\! 2100 \\ \end{array}$$



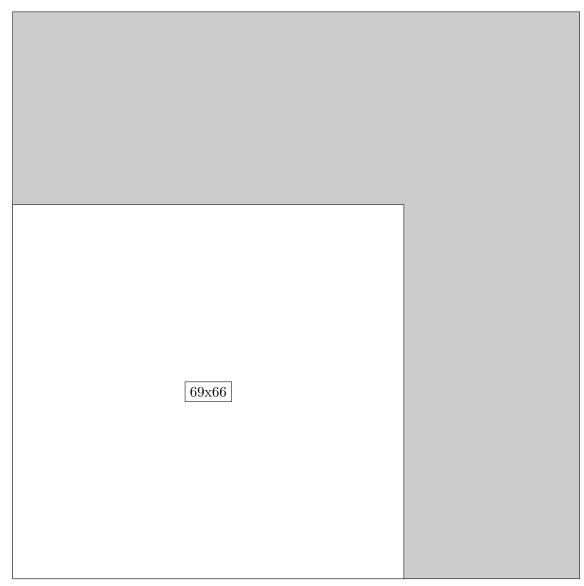
w = 70, h = 70, x = 0, y = 0, v = 4900



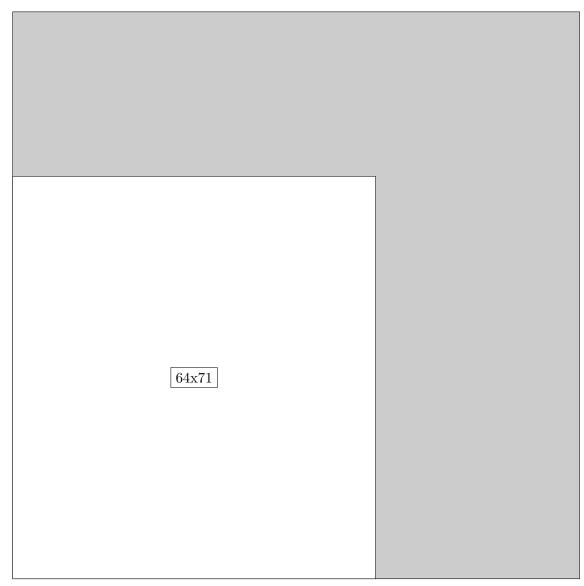
 $\le =85$, h =57 , x =0 , y =0 , v =4845



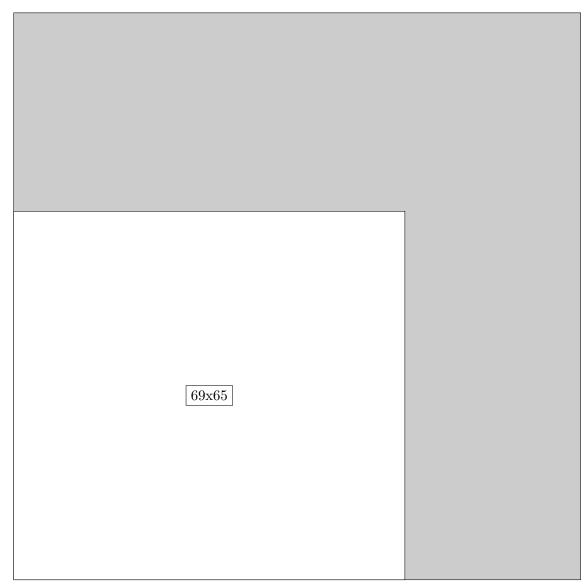
$$\begin{array}{l} w = \! 90 \ , \ h = \! 51 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 4590 \\ w = \! 78 \ , \ h = \! 46 \ , \ x = \! 0 \ , \ y = \! 51 \ , \ v = \! 3588 \end{array}$$



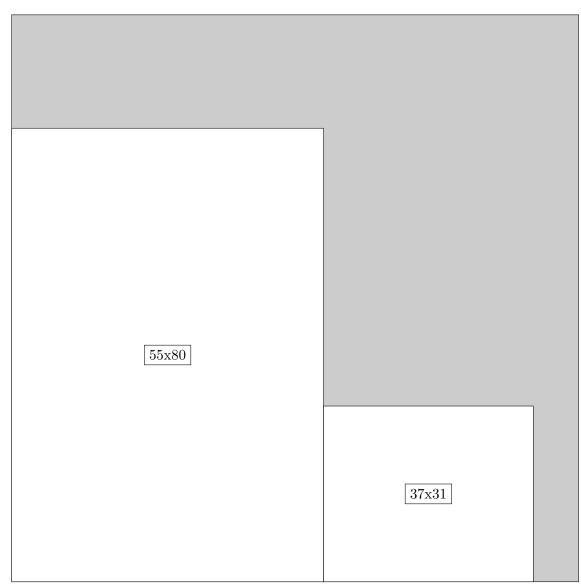
w = 69, h = 66, x = 0, y = 0, v = 4554

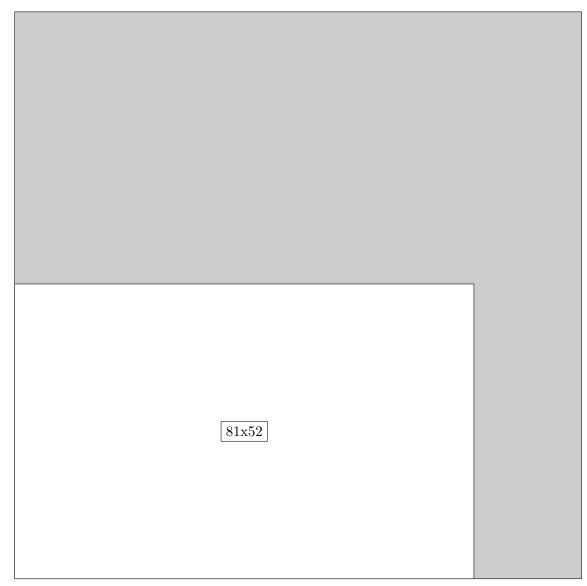


w = 64, h = 71, x = 0, y = 0, v = 4544

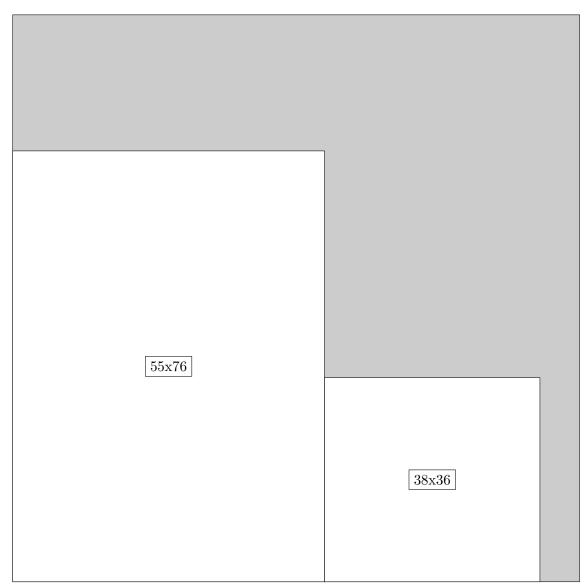


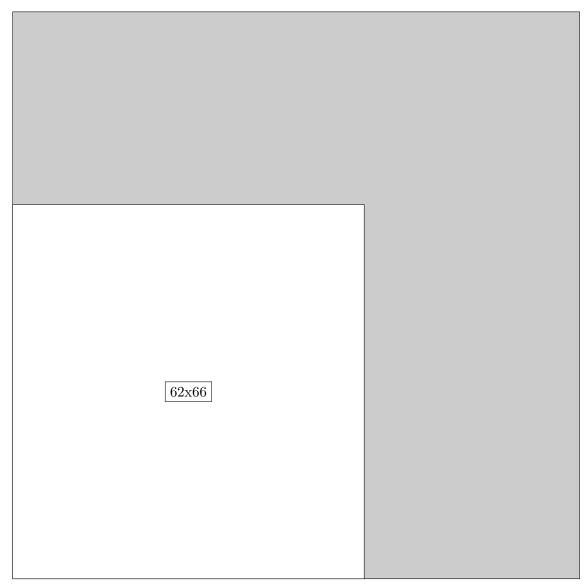
 $\le =69$, h =65 , x =0 , y =0 , v =4485



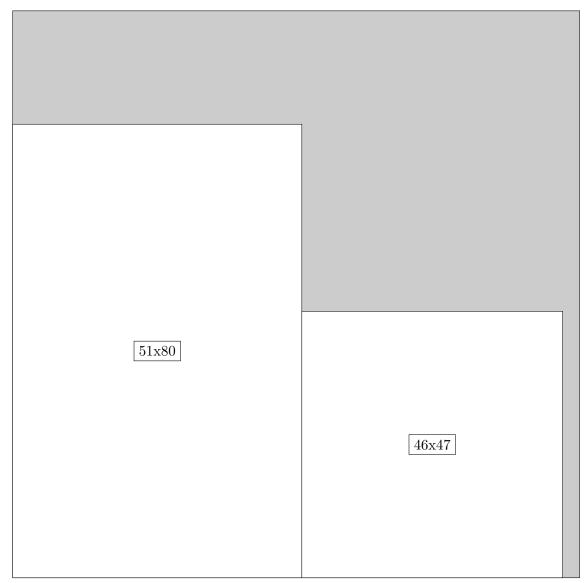


 $\le =81$, h =52 , x =0 , y =0 , v =4212

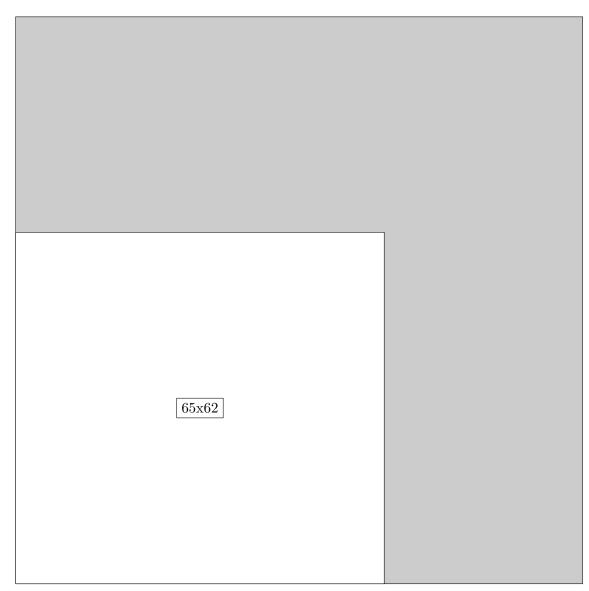




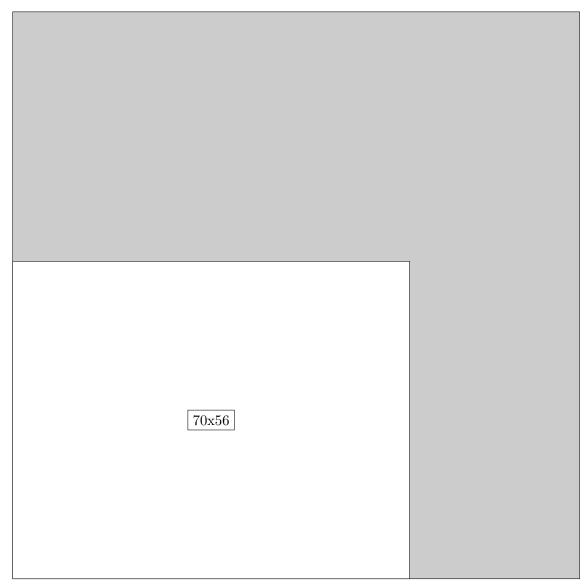
w = 62, h = 66, x = 0, y = 0, v = 4092



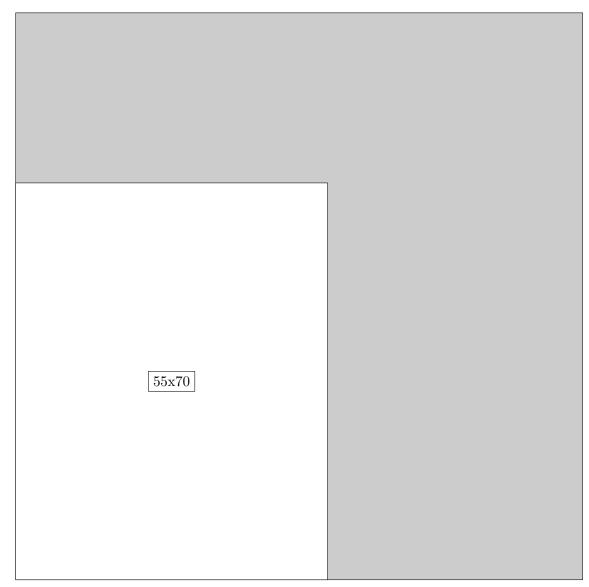
$$\begin{array}{c} w = \!\! 51 \; , \; h = \!\! 80 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 4080 \\ w = \!\! 46 \; , \; h = \!\! 47 \; , \; x = \!\! 51 \; , \; y = \!\! 0 \; , \; v = \!\! 2162 \\ \end{array}$$



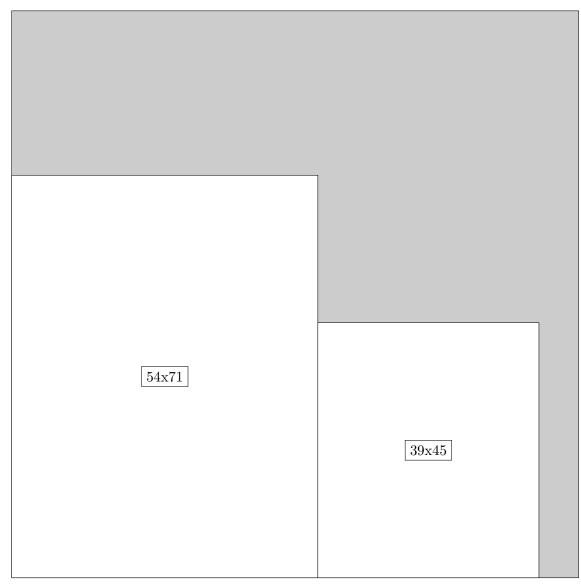
w = 65, h = 62, x = 0, y = 0, v = 4030



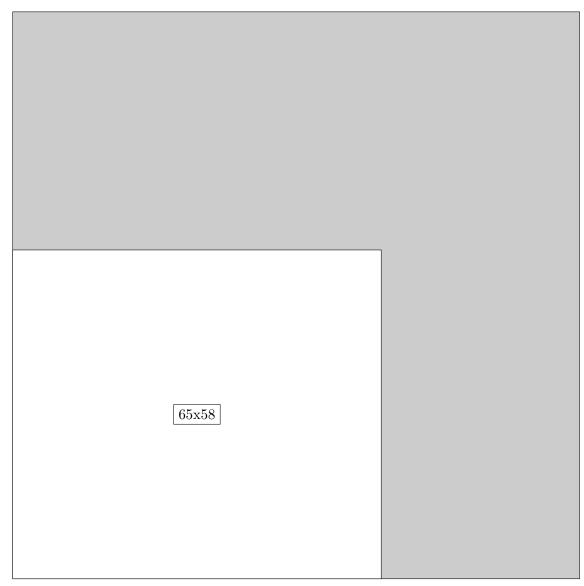
 $\overline{\mathbf{w}} = 70$, $\mathbf{h} = 56$, $\mathbf{x} = 0$, $\mathbf{y} = 0$, $\mathbf{v} = 3920$



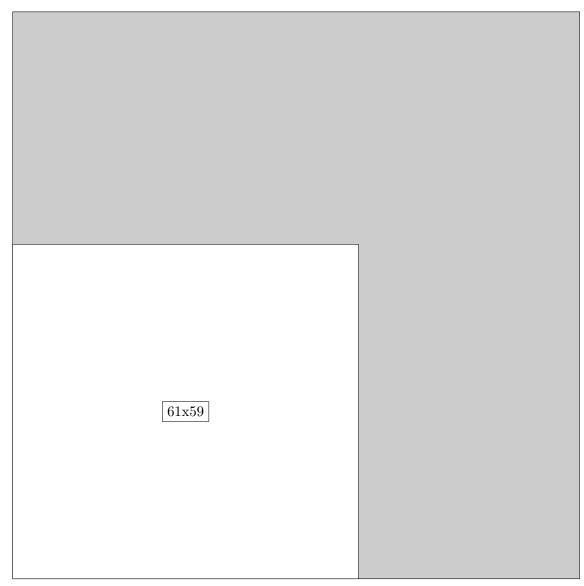
 $\overline{\mathrm{w}}$ =55 , h =70 , x =0 , y =0 , v =3850



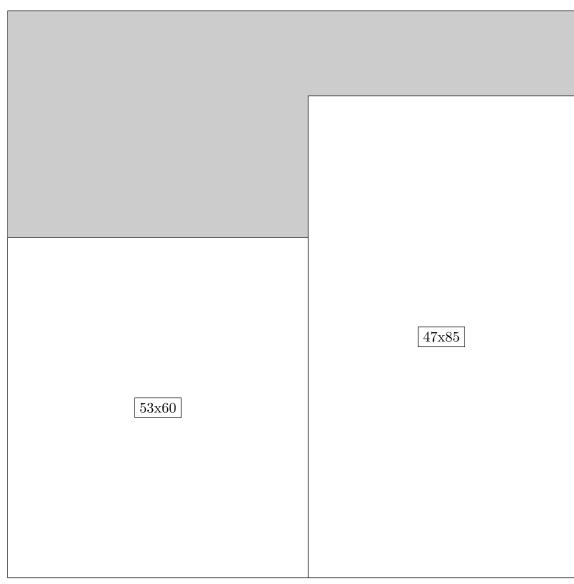
$$\begin{array}{c} w = \!54 \; , \; h = \!71 \; , \; x = \!0 \; , \; y = \!0 \; , \; v = \!3834 \\ w = \!39 \; , \; h = \!45 \; , \; x = \!54 \; , \; y = \!0 \; , \; v = \!1755 \end{array}$$



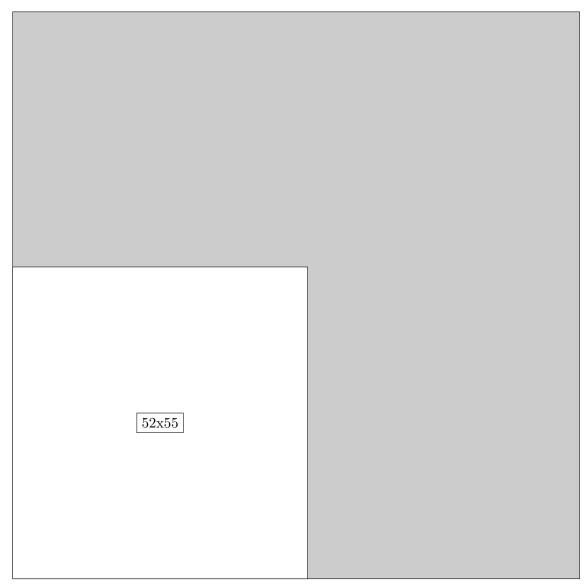
w = 65, h = 58, x = 0, y = 0, v = 3770



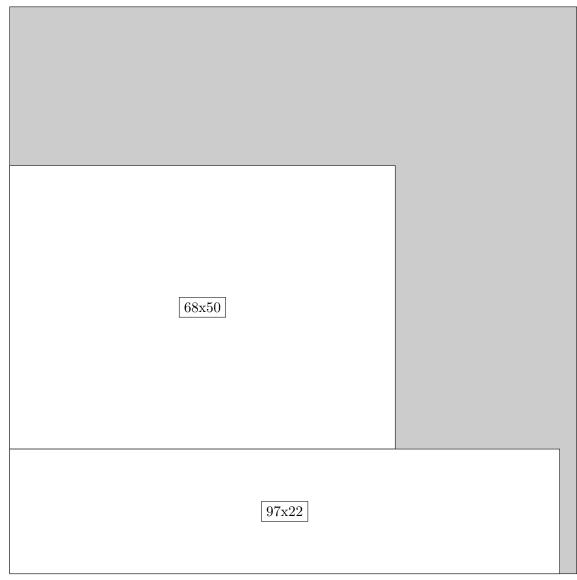
w = 61, h = 59, x = 0, y = 0, v = 3599



$$\begin{array}{l} w = \!\! 47 \ , \ h = \!\! 85 \ , \ x = \!\! 53 \ , \ y = \!\! 0 \ , \ v = \!\! 3995 \\ w = \!\! 53 \ , \ h = \!\! 60 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 3180 \end{array}$$



 ≤ -52 , h = 55 , x =0 , y = 0 , v = 2860



$$\begin{array}{l} w = \!68 \; , \; h = \!50 \; , \; x = \!0 \; , \; y = \!22 \; , \; v = \!3400 \\ w = \!97 \; , \; h = \!22 \; , \; x = \!0 \; , \; y = \!0 \; , \; v = \!2134 \end{array}$$