$ClassName: \ Class_09.2bp-43$

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

TypeNum: <u>100</u> Num: <u>100</u> OutS: <u>780000</u> InS: <u>475108</u> Rate: <u>0.609</u> UB: <u>78</u> LB0: <u>78</u>

LBWithCut: $\underline{78}$ NodeCut: $\underline{0}$

LB: **78**

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

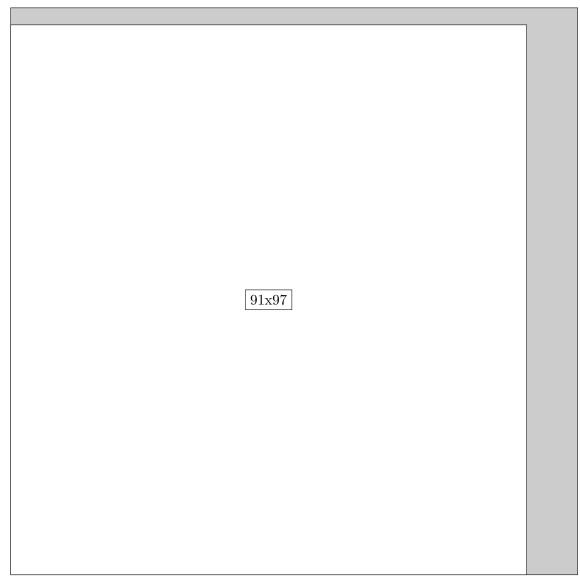
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{78}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

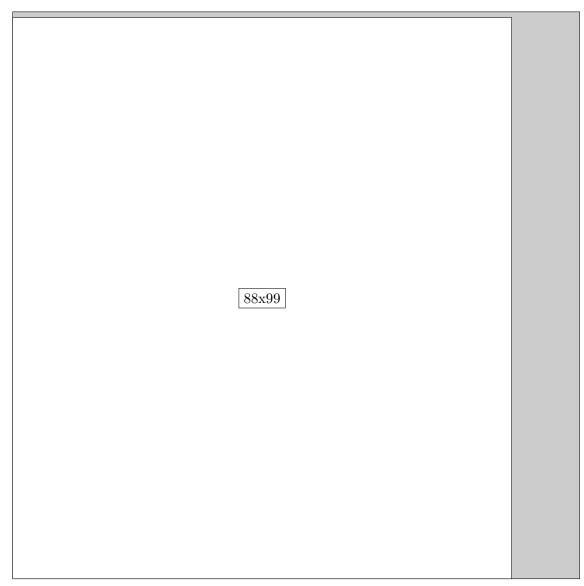
 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.790 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.094 \ s} \\ {\rm TotalTime:} \ \underline{0.947 \ s} \\ \end{array}$



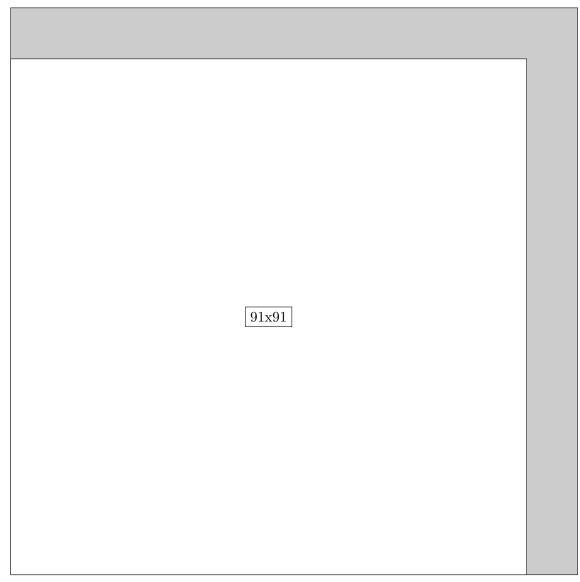
 $\le =100$, h =89 , x =0 , y =0 , v =8900



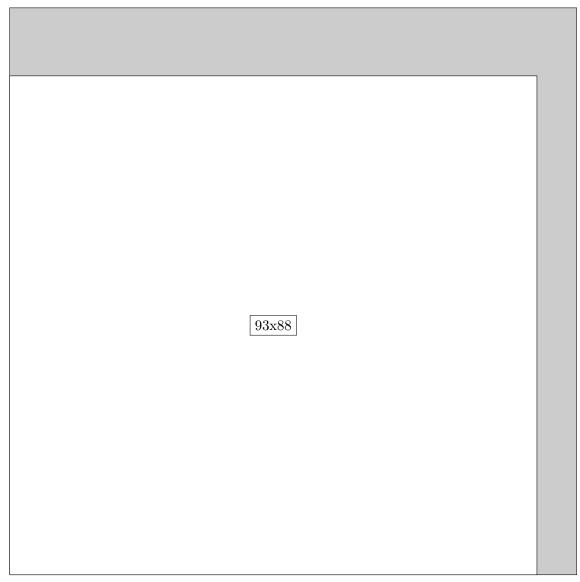
 $\le =91$, h =97 , x =0 , y =0 , v =8827



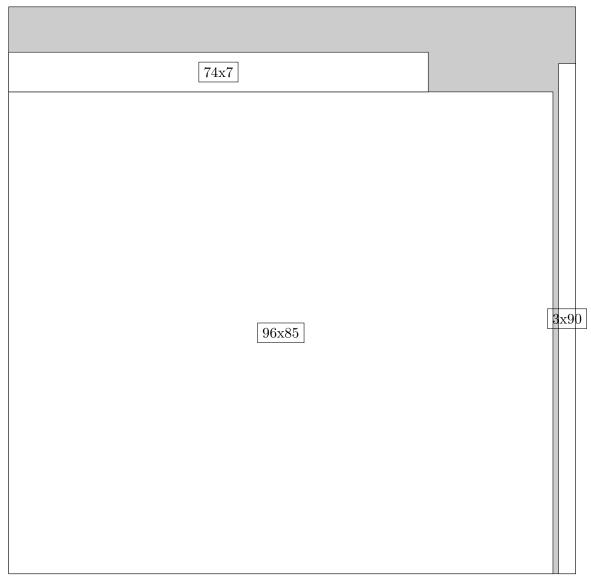
 $\le =88$, h =99 , x =0 , y =0 , v =8712



 $\le =91$, h =91 , x =0 , y =0 , v =8281



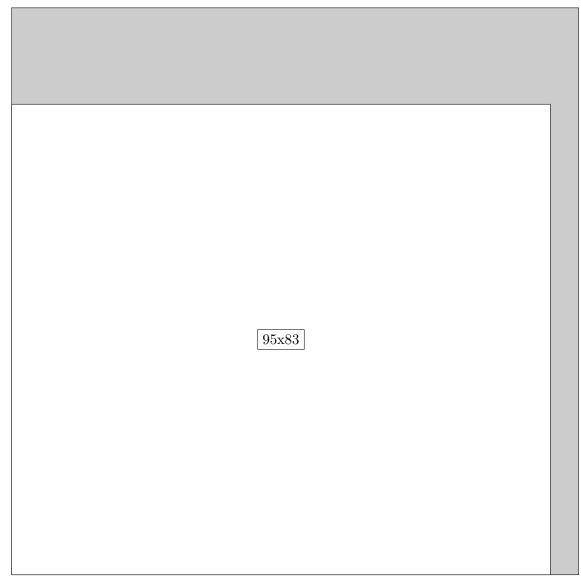
 $\le =93$, h =88 , x =0 , y =0 , v =8184



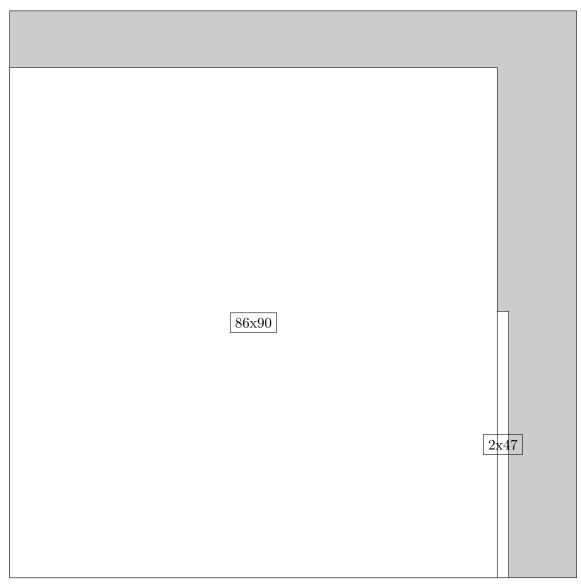
$$w = 96$$
, $h = 85$, $x = 0$, $y = 0$, $v = 8160$

$$\le =74$$
 , h =7 , x =0 , y =85 , v =518

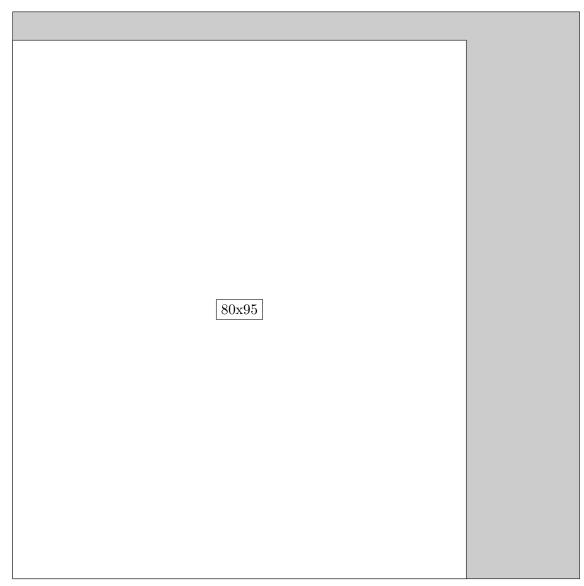
$$\mathbf{w}$$
 =3 , h =90 , x =97 , y =0 , v =270



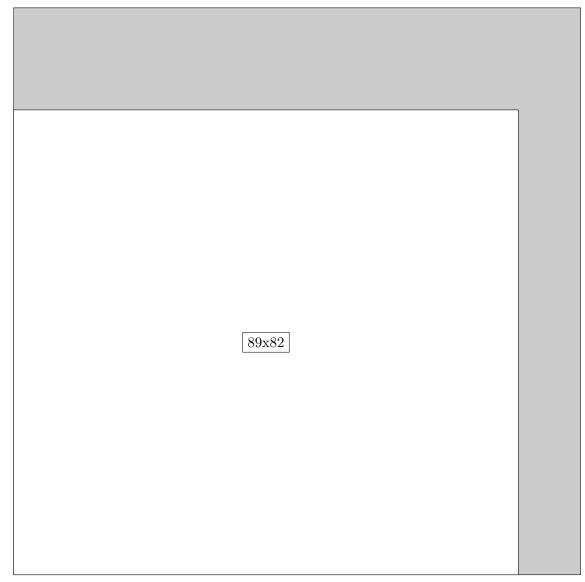
w = 95, h = 83, x = 0, y = 0, v = 7885



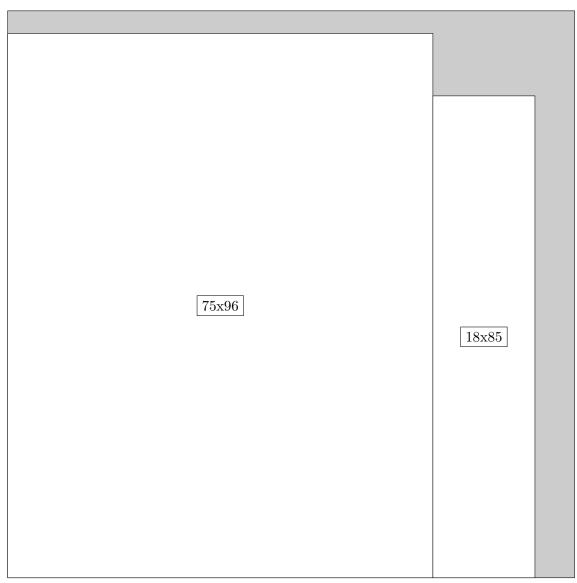
$$\begin{array}{l} w = \! 86 \ , \, h = \! 90 \ , \, x = \! 0 \ , \, y = \! 0 \ , \, v = \! 7740 \\ w = \! 2 \ , \, h = \! 47 \ , \, x = \! 86 \ , \, y = \! 0 \ , \, v = \! 94 \end{array}$$



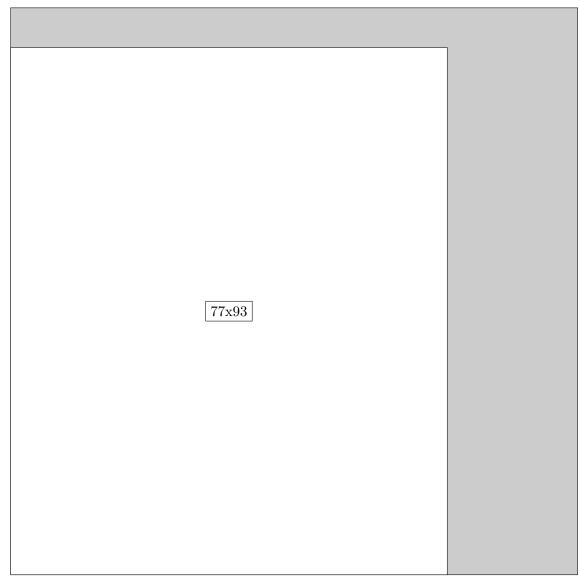
w = 80, h = 95, x = 0, y = 0, v = 7600



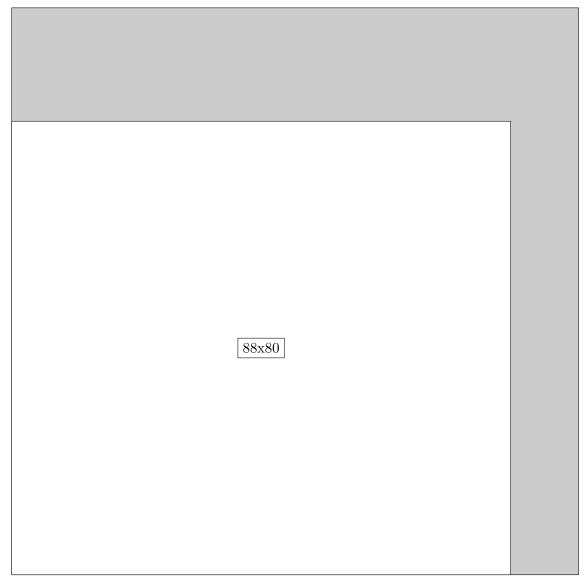
 $\le =89$, h =82 , x =0 , y =0 , v =7298



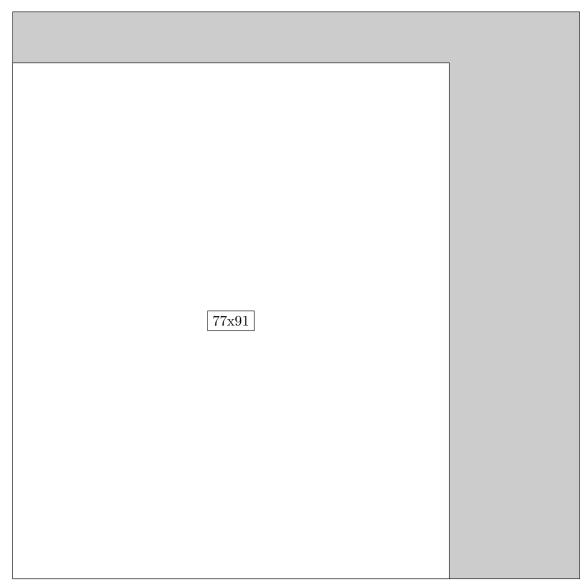
$$\begin{array}{c} w = \!\!\! 75 \ , \ h = \!\!\! 96 \ , \ x = \!\!\! 0 \ , \ y = \!\!\! 0 \ , \ v = \!\!\! 7200 \\ w = \!\!\! 18 \ , \ h = \!\!\! 85 \ , \ x = \!\!\! 75 \ , \ y = \!\!\! 0 \ , \ v = \!\!\! 1530 \\ \end{array}$$



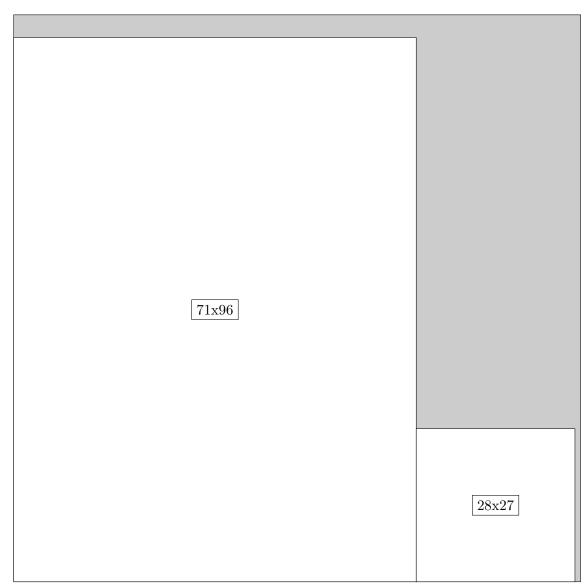
 \mathbf{w} =77 , h =93 , x =0 , y =0 , v =7161

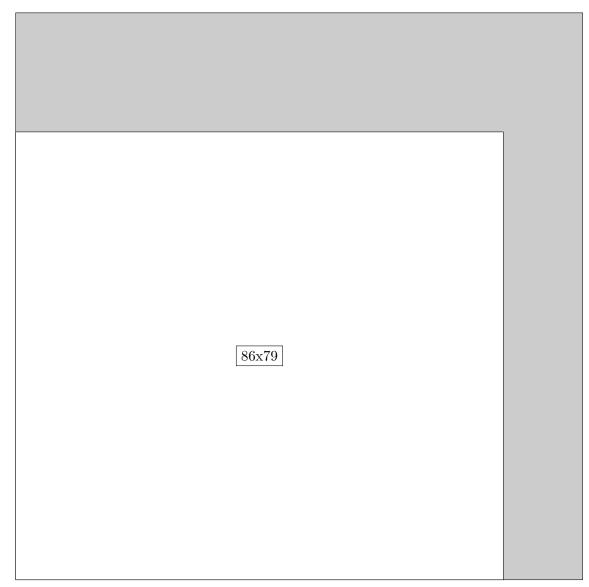


 $\le =88$, h =80 , x =0 , y =0 , v =7040

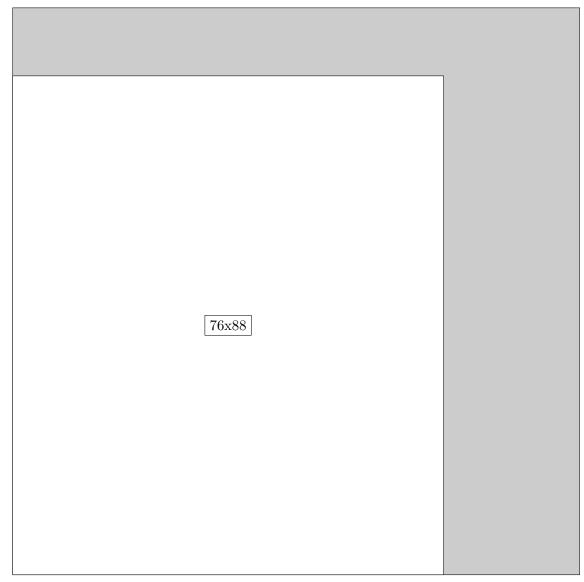


w = 77, h = 91, x = 0, y = 0, v = 7007

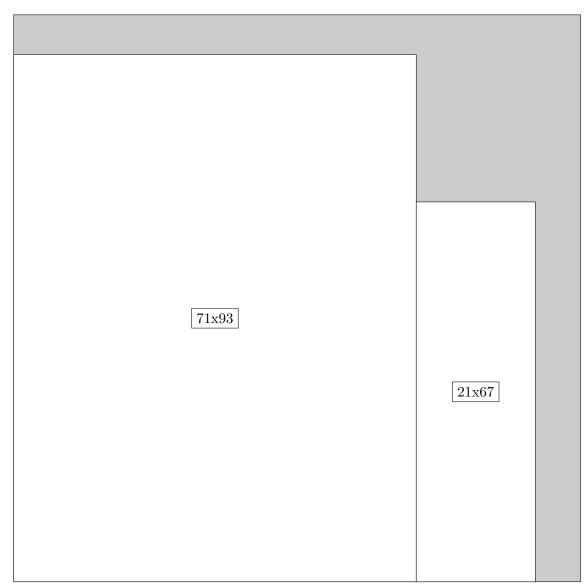




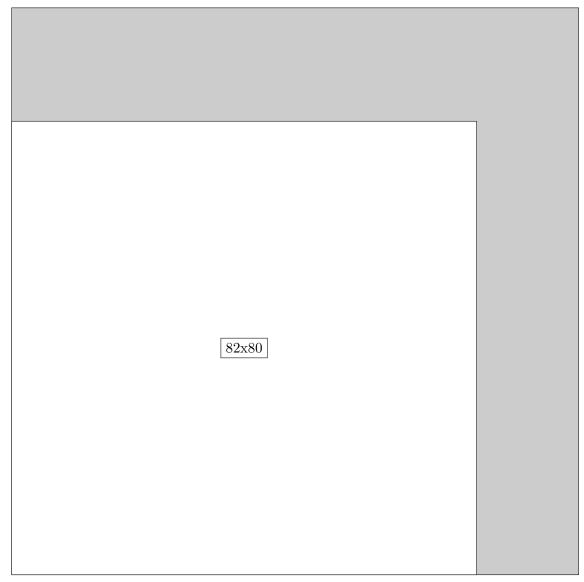
 $\le =86$, h =79 , x =0 , y =0 , v =6794



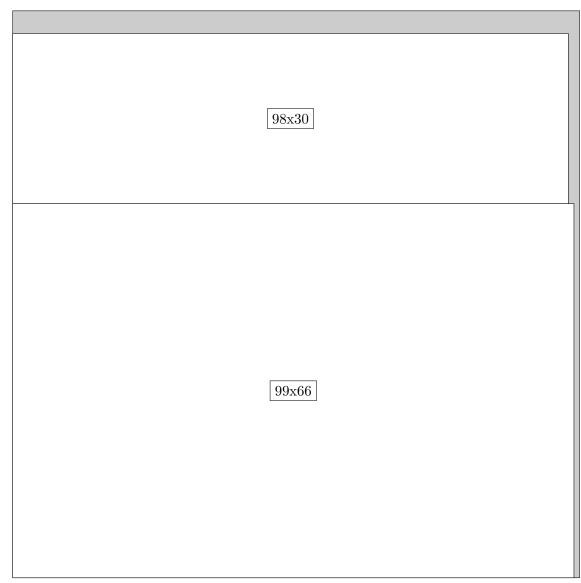
w = 76, h = 88, x = 0, y = 0, v = 6688



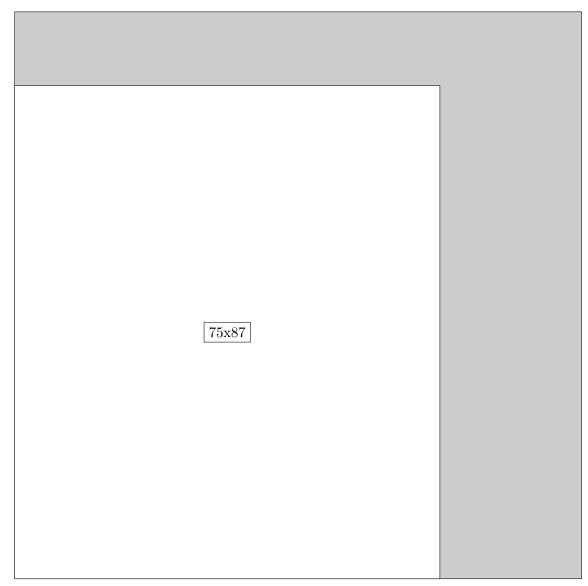
$$\begin{array}{c} w = 71 \ , \ h = 93 \ , \ x = 0 \ , \ y = 0 \ , \ v = 6603 \\ w = 21 \ , \ h = 67 \ , \ x = 71 \ , \ y = 0 \ , \ v = 1407 \\ \end{array}$$



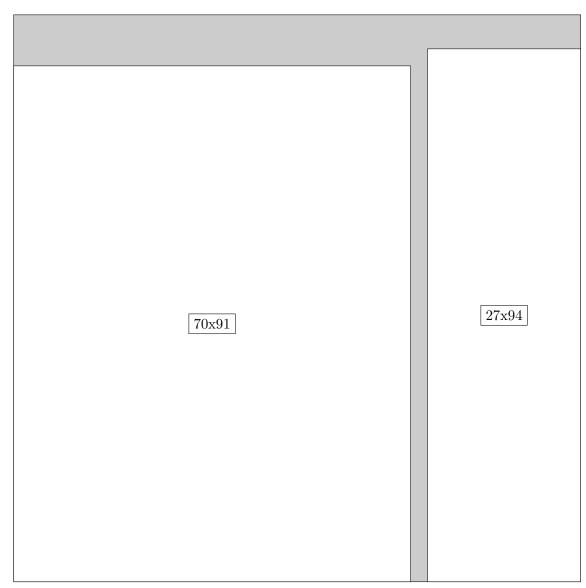
w = 82, h = 80, x = 0, y = 0, v = 6560

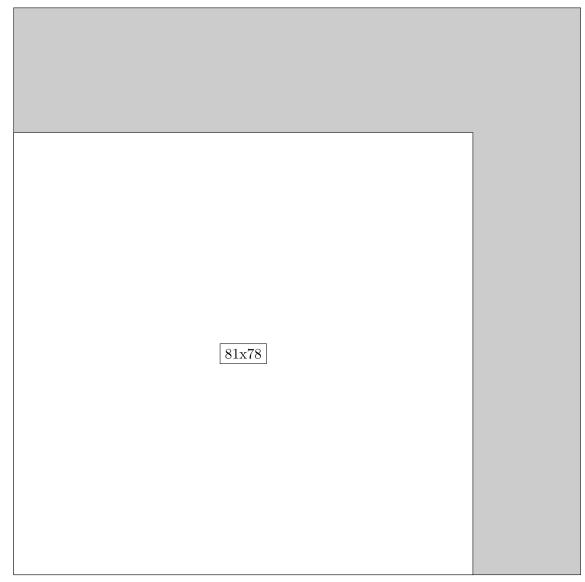


$$\begin{array}{c} w = 99 \ , \ h = 66 \ , \ x = 0 \ , \ y = 0 \ , \ v = 6534 \\ w = 98 \ , \ h = 30 \ , \ x = 0 \ , \ y = 66 \ , \ v = 2940 \\ \end{array}$$

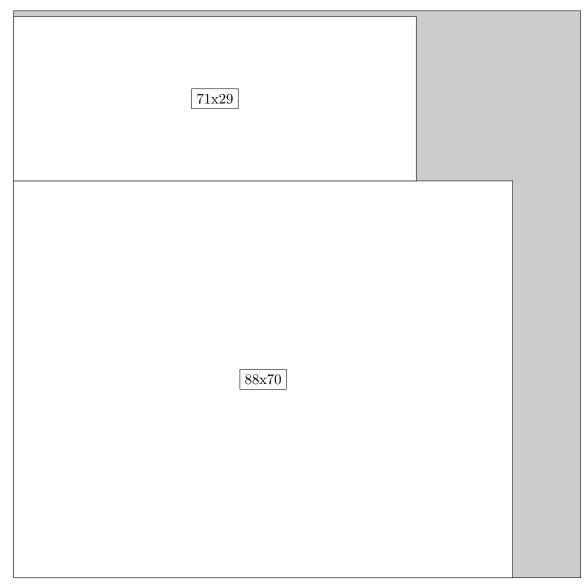


w = 75, h = 87, x = 0, y = 0, v = 6525

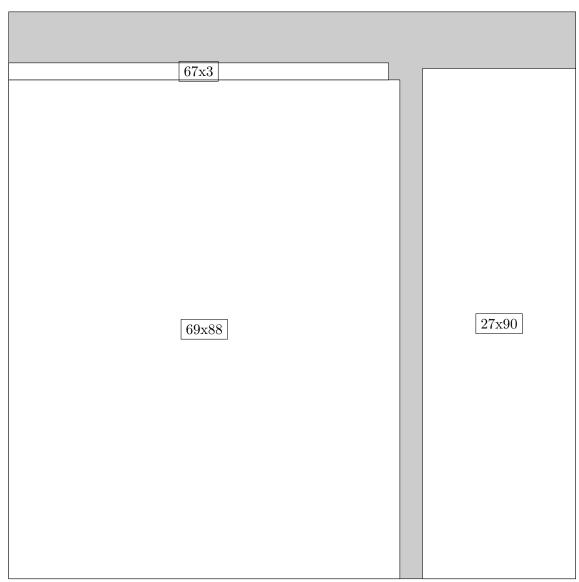




 $\le =81$, h =78 , x =0 , y =0 , v =6318



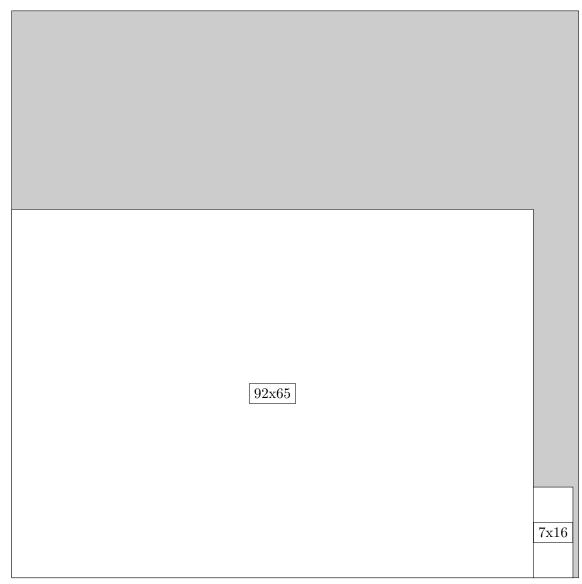
$$\begin{array}{l} w = \! 88 \ , \ h = \! 70 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 6160 \\ w = \! 71 \ , \ h = \! 29 \ , \ x = \! 0 \ , \ y = \! 70 \ , \ v = \! 2059 \end{array}$$



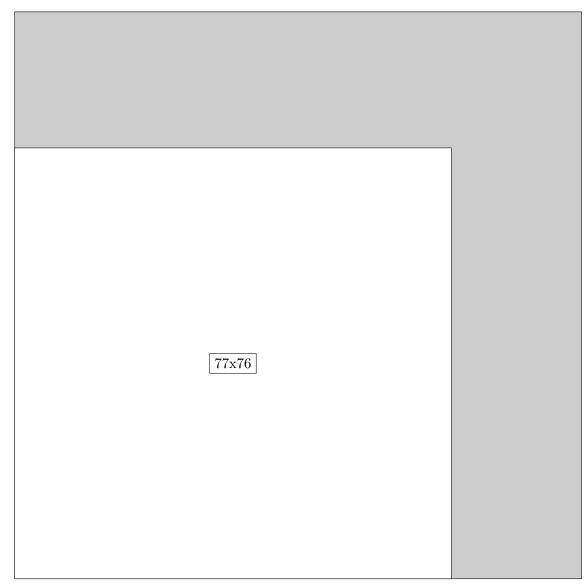
$$\le =69$$
 , h =88 , x =0 , y =0 , v =6072

$$\le =27$$
 , h =90 , x =73 , y =0 , v =2430

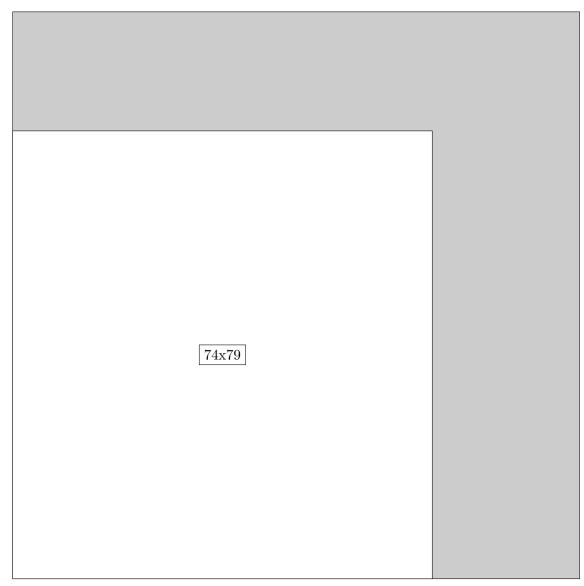
$$\le =67$$
 , h =3 , x =0 , y =88 , v =201



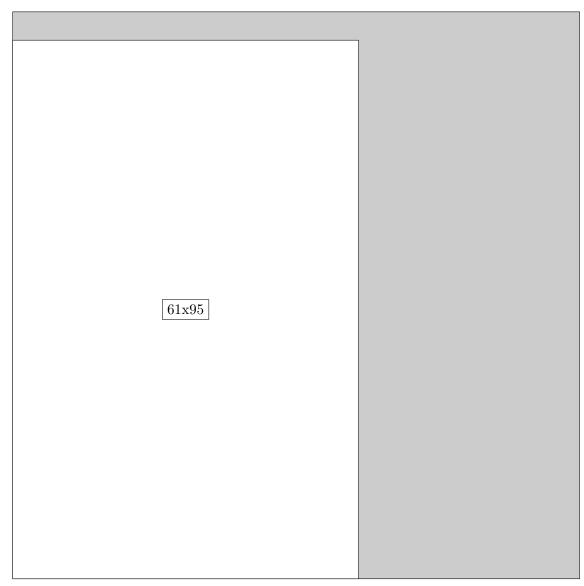
$$\begin{array}{l} w = \! 92 \ , \ h = \! 65 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 5980 \\ w = \! 7 \ , \ h = \! 16 \ , \ x = \! 92 \ , \ y = \! 0 \ , \ v = \! 112 \end{array}$$



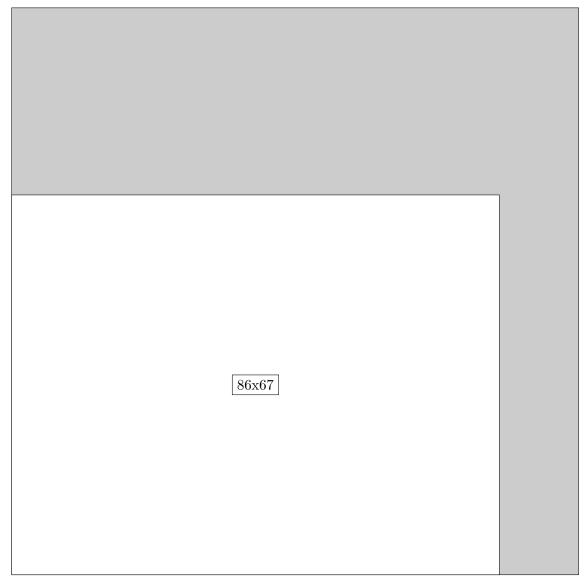
w = 77, h = 76, x = 0, y = 0, v = 5852



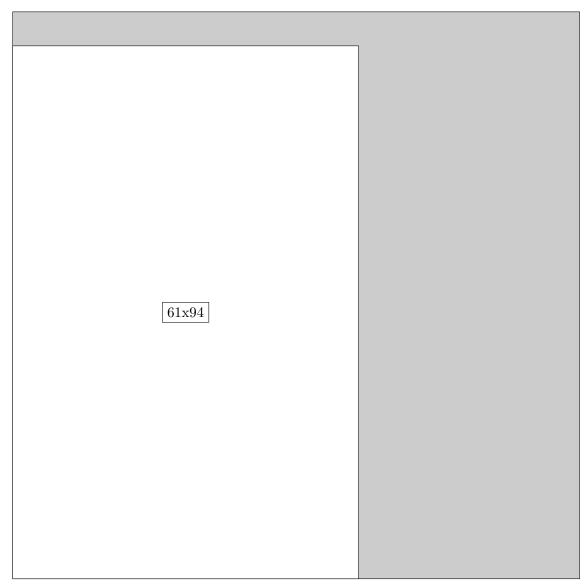
w = 74, h = 79, x = 0, y = 0, v = 5846



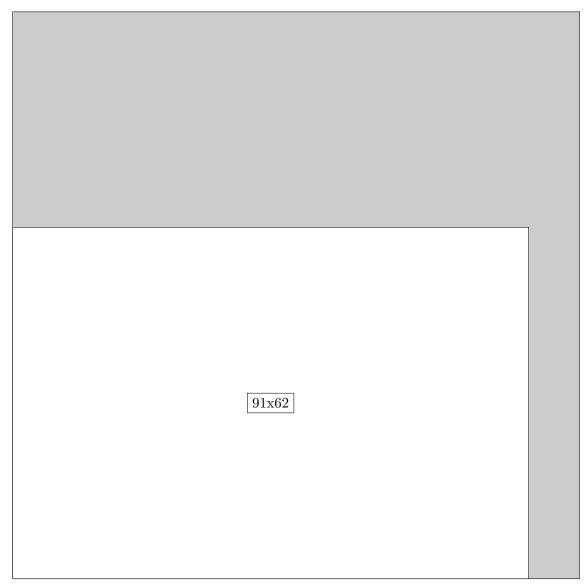
w = 61, h = 95, x = 0, y = 0, v = 5795



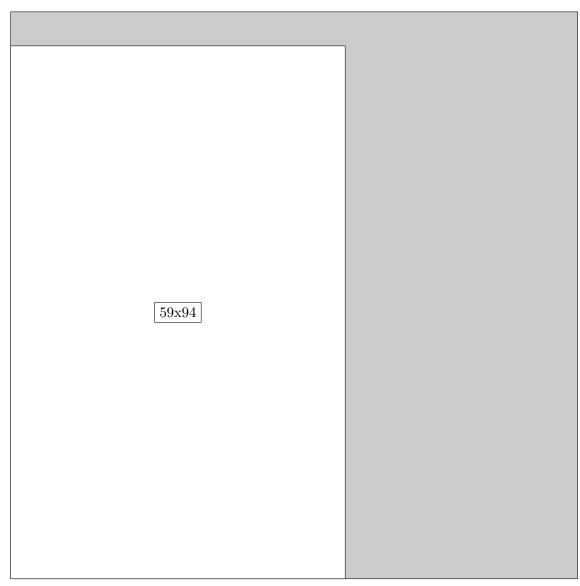
 $\le =86$, h =67 , x =0 , y =0 , v =5762



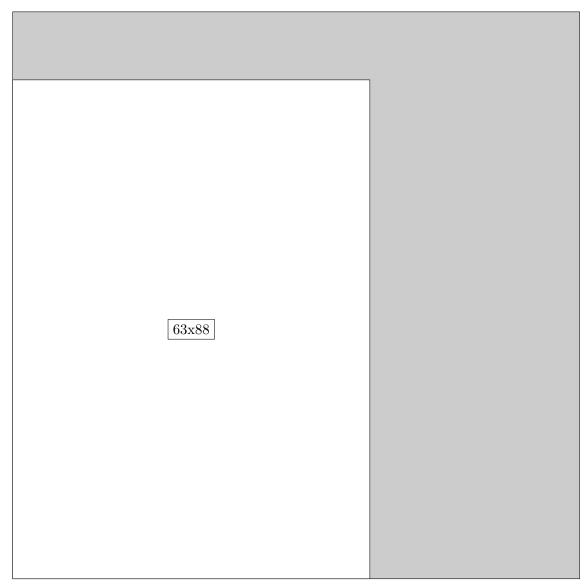
w = 61, h = 94, x = 0, y = 0, v = 5734



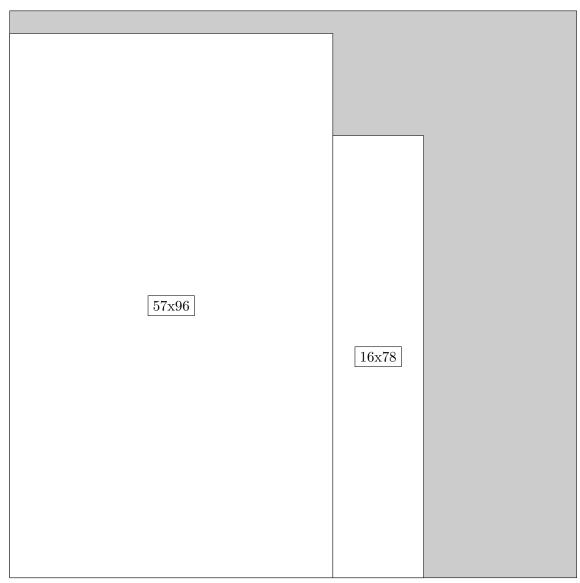
w = 91, h = 62, x = 0, y = 0, v = 5642



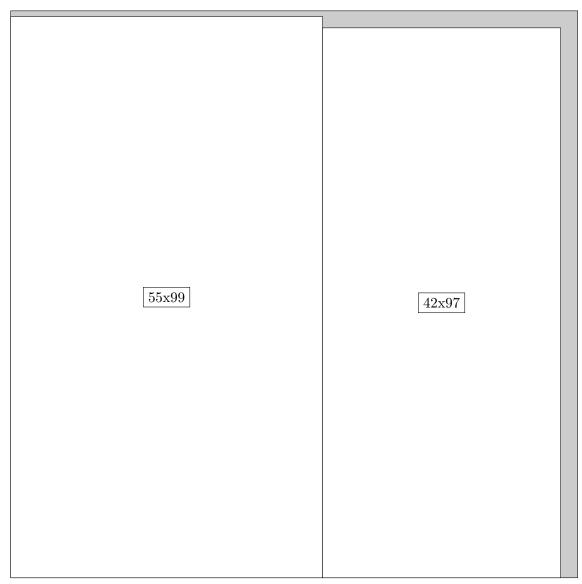
w = 59, h = 94, x = 0, y = 0, v = 5546



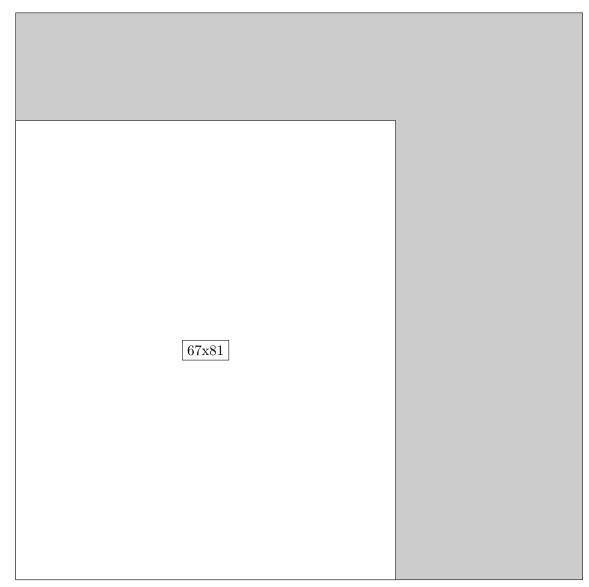
 $\le =63$, h =88 , x =0 , y =0 , v =5544



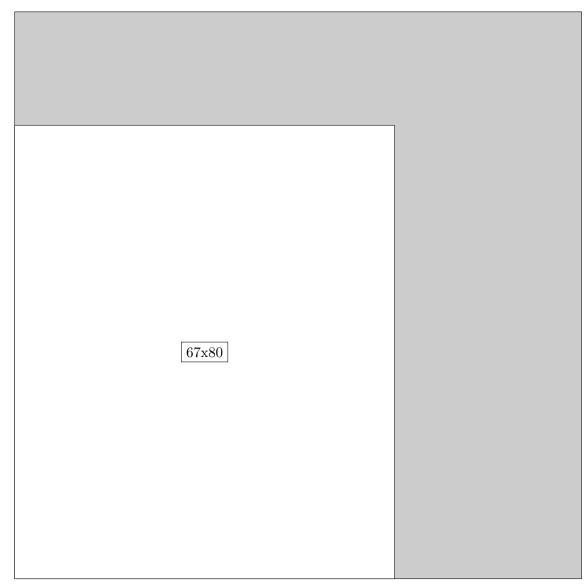
$$\begin{array}{c} w = \!\! 57 \; , \; h = \!\! 96 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 5472 \\ w = \!\! 16 \; , \; h = \!\! 78 \; , \; x = \!\! 57 \; , \; y = \!\! 0 \; , \; v = \!\! 1248 \\ \end{array}$$



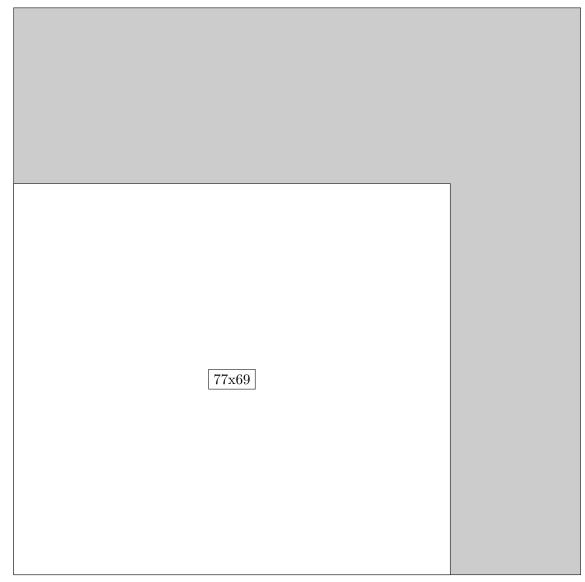
$$\begin{array}{c} w = \!\! 55 \ , \ h = \!\! 99 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 5445 \\ w = \!\! 42 \ , \ h = \!\! 97 \ , \ x = \!\! 55 \ , \ y = \!\! 0 \ , \ v = \!\! 4074 \\ \end{array}$$



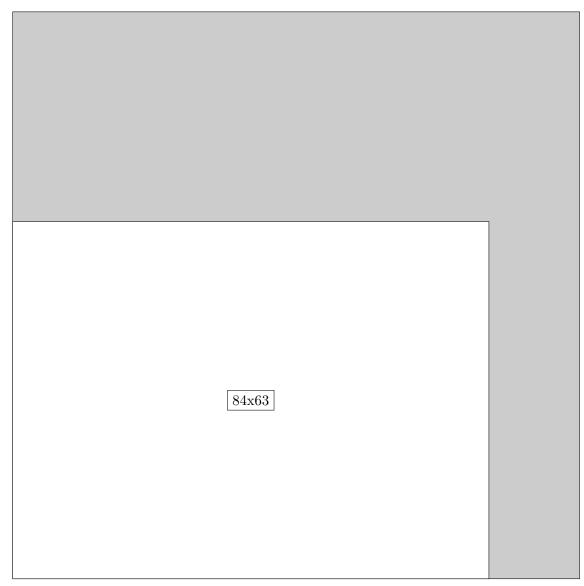
 $\le =67$, h =81 , x =0 , y =0 , v = 5427



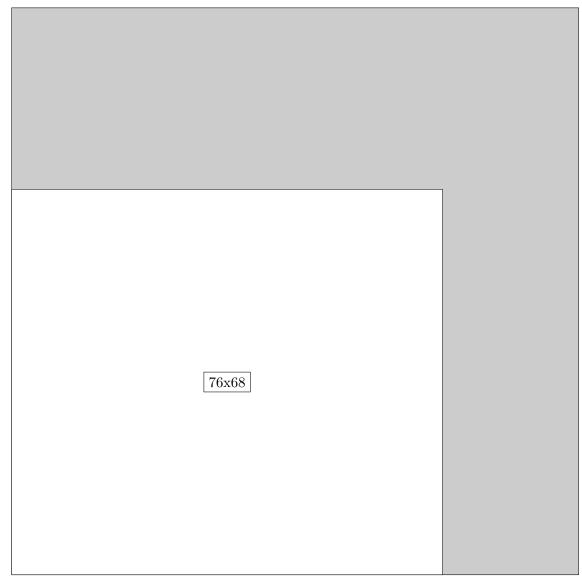
w = 67, h = 80, x = 0, y = 0, v = 5360



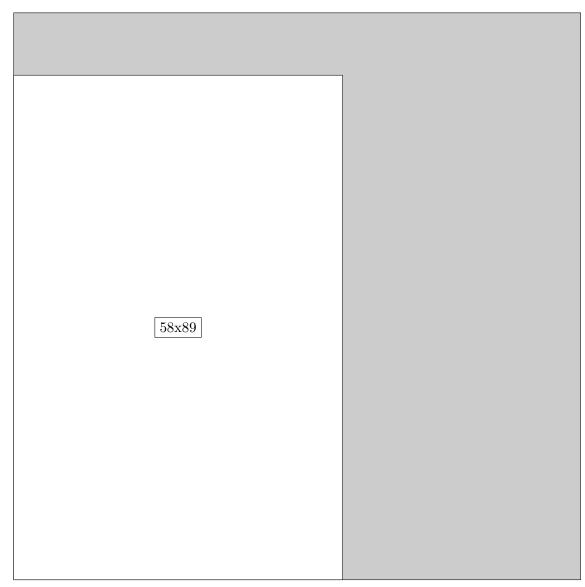
w = 77, h = 69, x = 0, y = 0, v = 5313



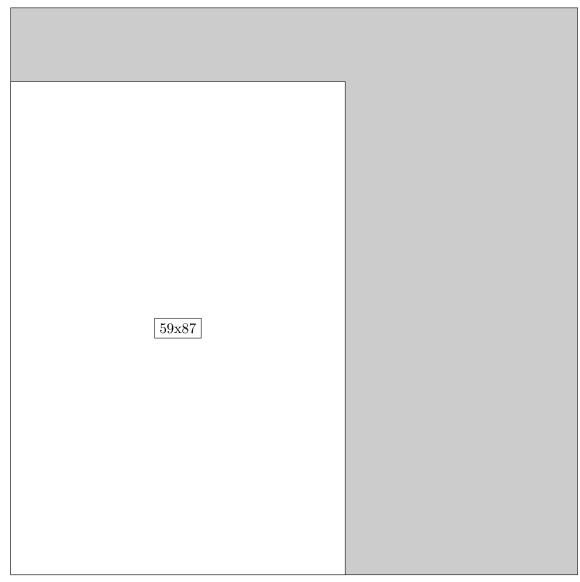
w = 84, h = 63, x = 0, y = 0, v = 5292



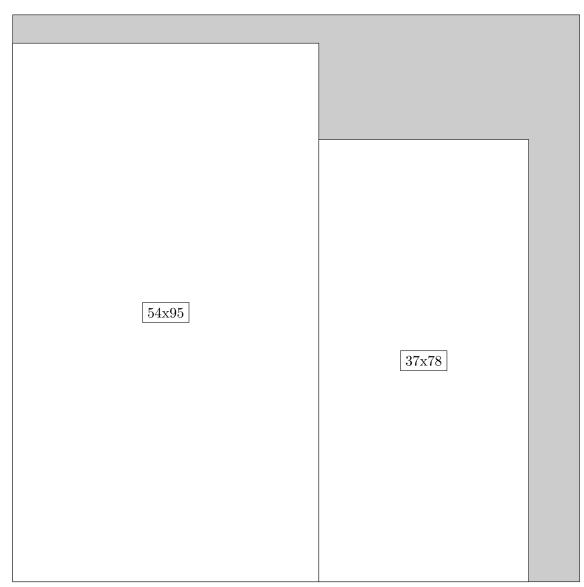
 $\overline{\mathbf{w}} = 76$, $\mathbf{h} = 68$, $\mathbf{x} = 0$, $\mathbf{y} = 0$, $\mathbf{v} = 5168$

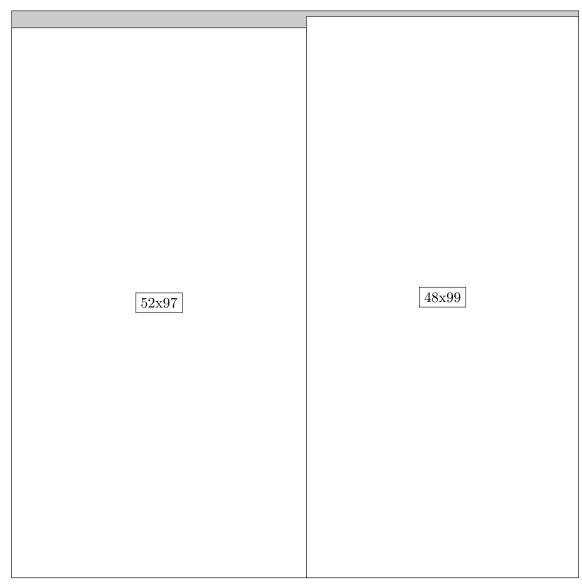


 ≤ -58 , h = 89 , x = 0 , y = 0 , v = 5162

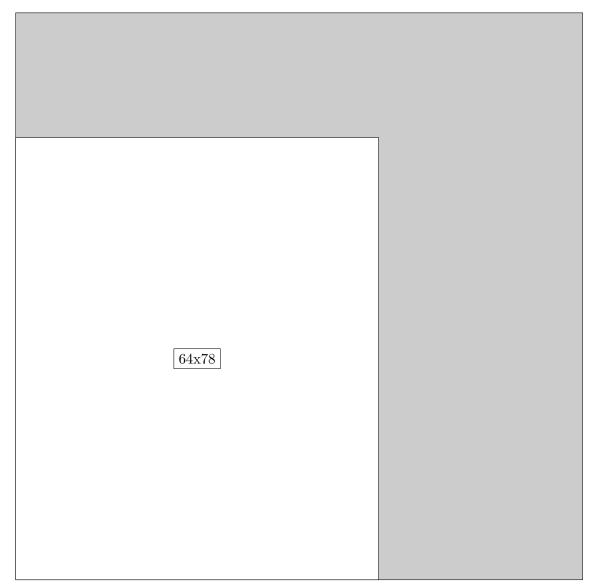


 $\le =59$, h =87 , x =0 , y =0 , v =5133

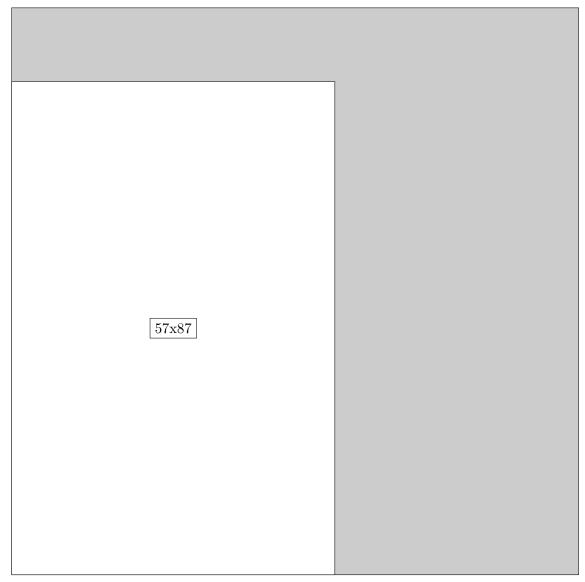




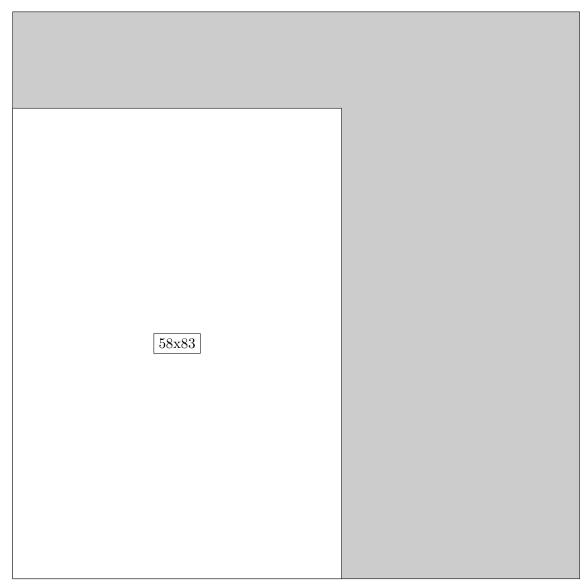
$$\begin{array}{c} w = \!\! 52 \; , \; h = \!\! 97 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 5044 \\ w = \!\! 48 \; , \; h = \!\! 99 \; , \; x = \!\! 52 \; , \; y = \!\! 0 \; , \; v = \!\! 4752 \end{array}$$



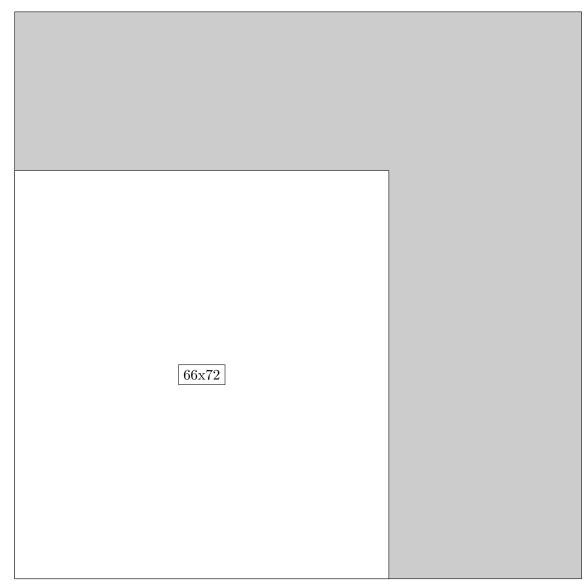
w = 64, h = 78, x = 0, y = 0, v = 4992



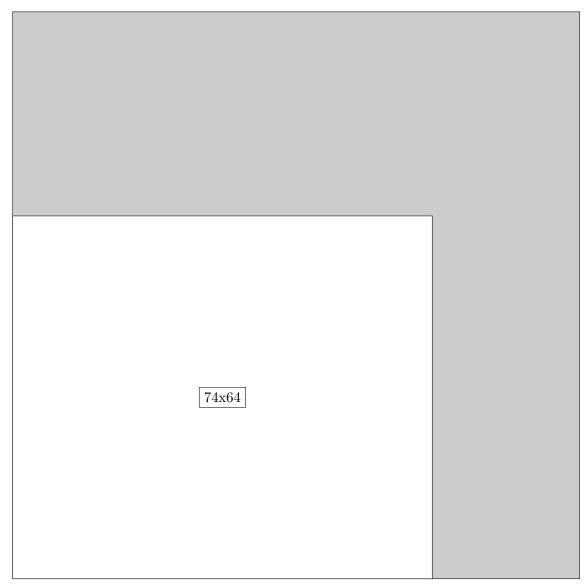
w = 57, h = 87, x = 0, y = 0, v = 4959



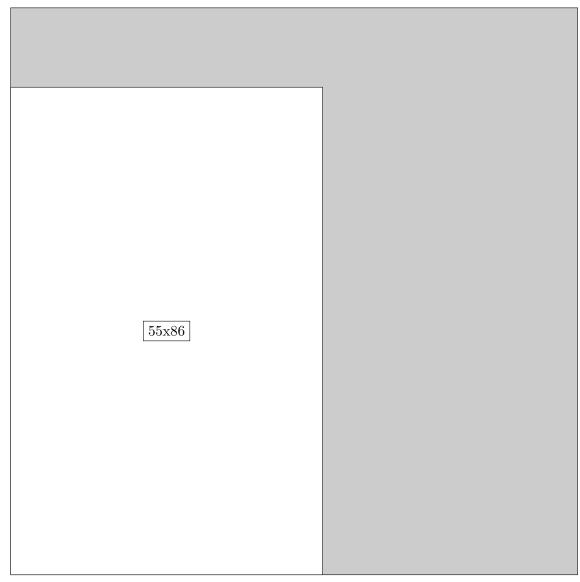
w = 58, h = 83, x = 0, y = 0, v = 4814



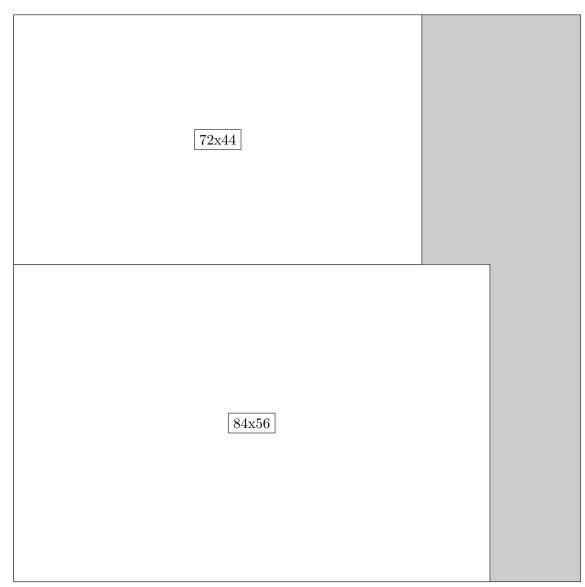
w = 66, h = 72, x = 0, y = 0, v = 4752

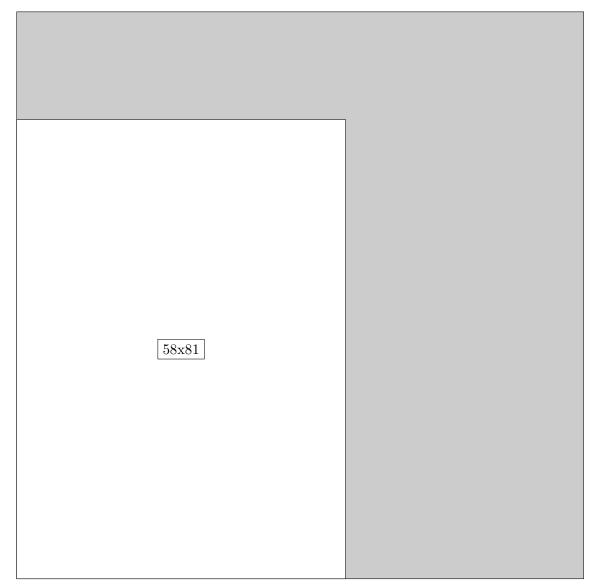


w = 74, h = 64, x = 0, y = 0, v = 4736

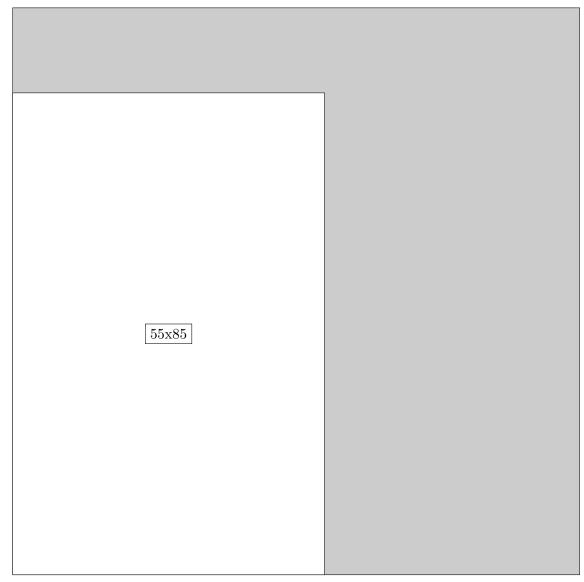


w = 55, h = 86, x = 0, y = 0, v = 4730

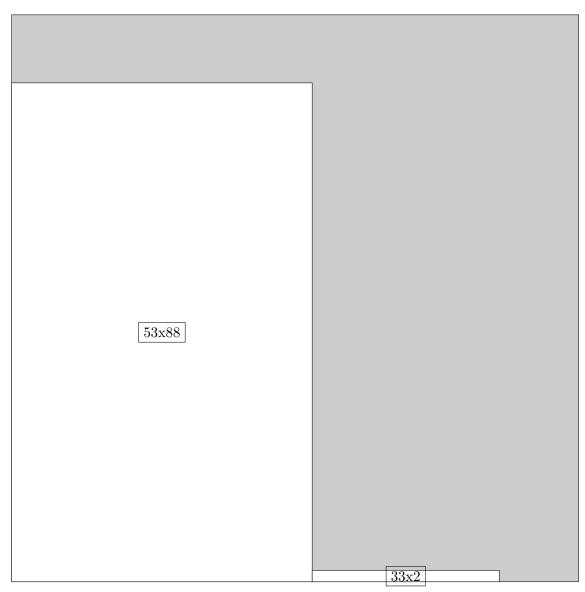




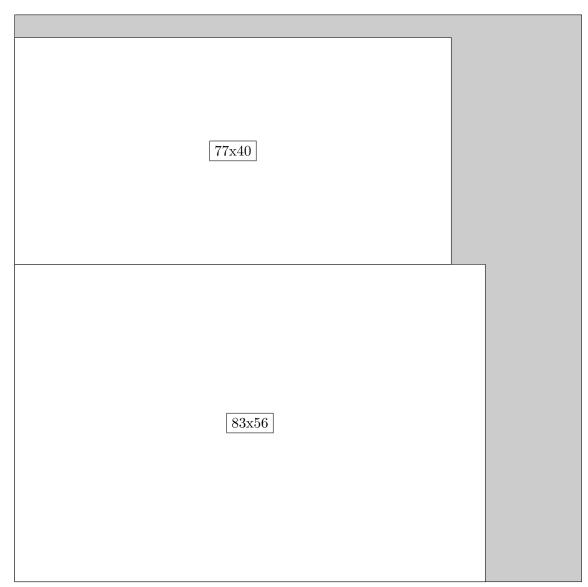
w = 58, h = 81, x = 0, y = 0, v = 4698



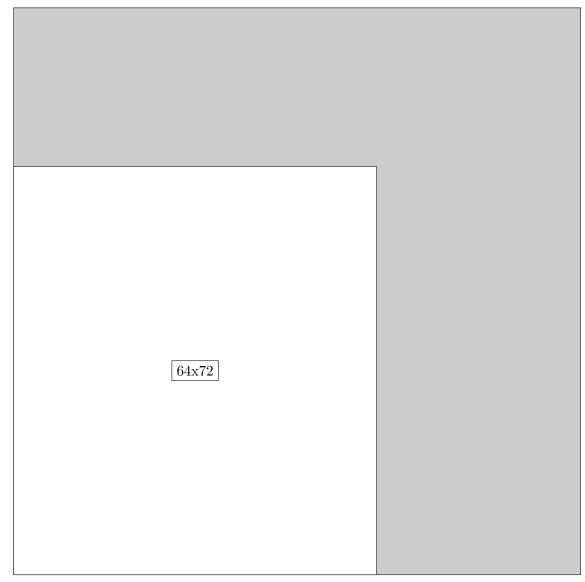
w = 55, h = 85, x = 0, y = 0, v = 4675



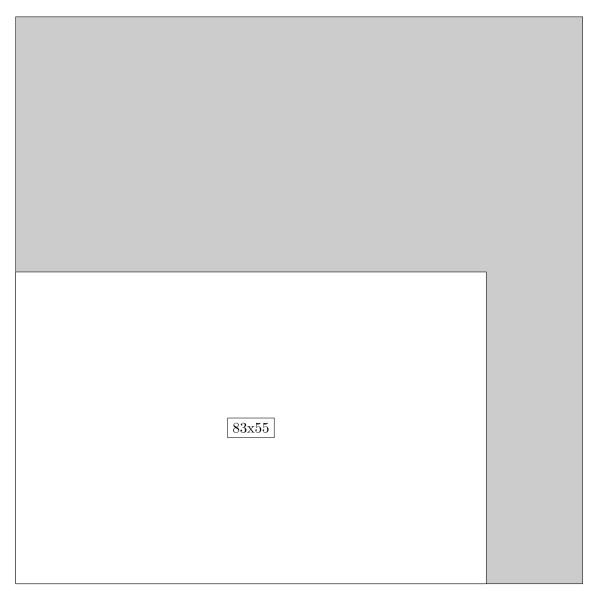
$$\begin{array}{l} w = \!\! 53 \ , \, h = \!\! 88 \ , \, x = \!\! 0 \ , \, y = \!\! 0 \ , \, v = \!\! 4664 \\ w = \!\! 33 \ , \, h = \!\! 2 \ , \, x = \!\! 53 \ , \, y = \!\! 0 \ , \, v = \!\! 66 \end{array}$$



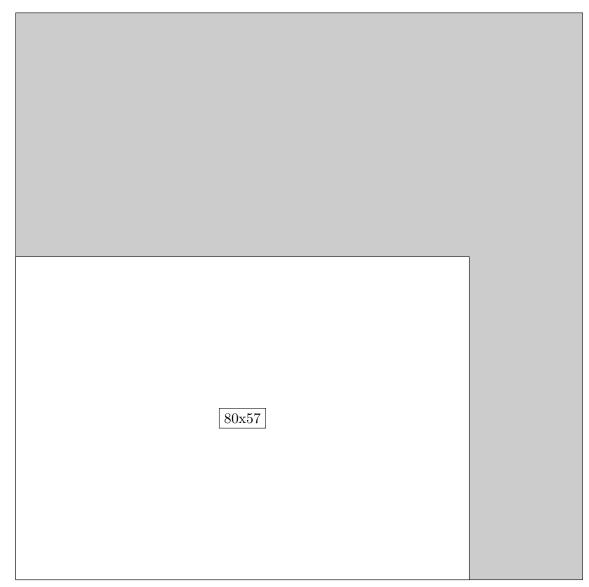
$$\begin{array}{c} w = \! 83 \; , \; h = \! 56 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 4648 \\ w = \! 77 \; , \; h = \! 40 \; , \; x = \! 0 \; , \; y = \! 56 \; , \; v = \! 3080 \\ \end{array}$$



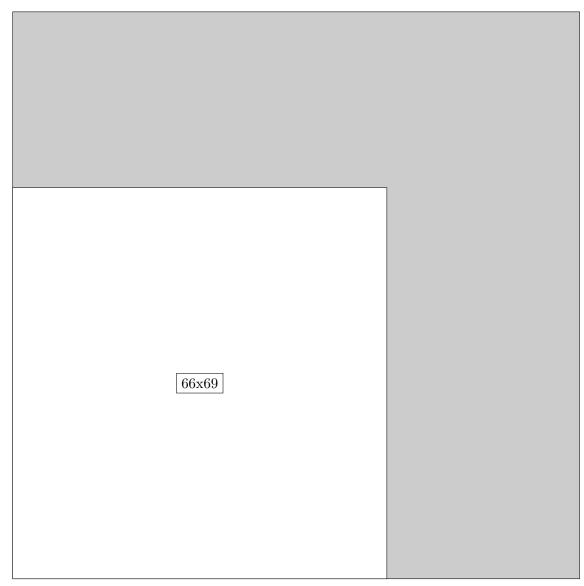
w = 64, h = 72, x = 0, y = 0, v = 4608



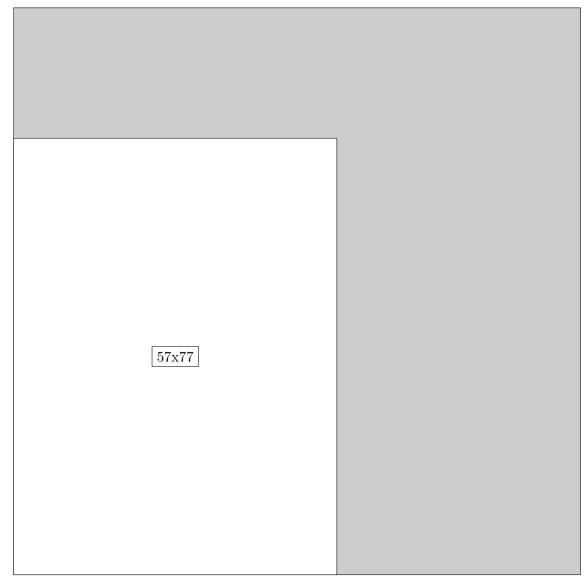
 $\le =83$, h =55 , x =0 , y =0 , v =4565



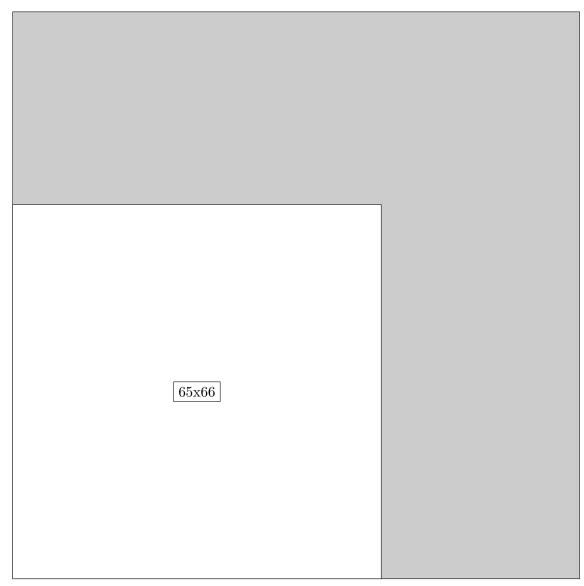
 $\le =80$, h =57 , x =0 , y =0 , v =4560



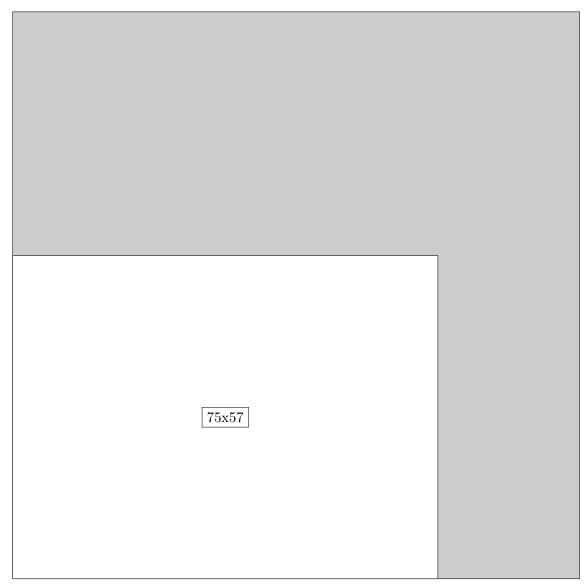
w = 66, h = 69, x = 0, y = 0, v = 4554



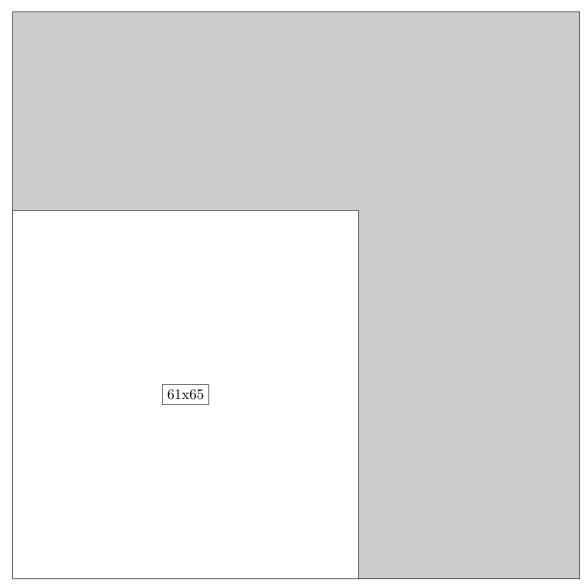
w = 57, h = 77, x = 0, y = 0, v = 4389



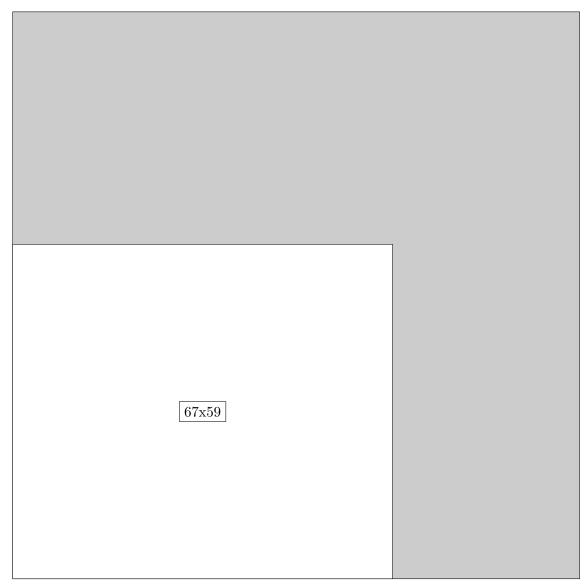
w = 65, h = 66, x = 0, y = 0, v = 4290



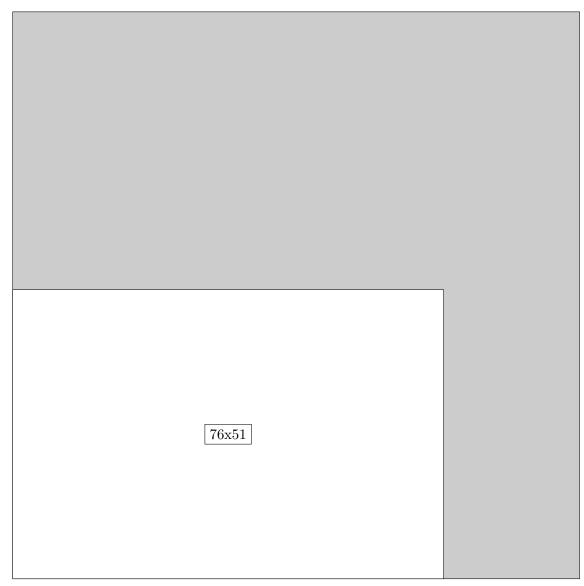
w = 75, h = 57, x = 0, y = 0, v = 4275



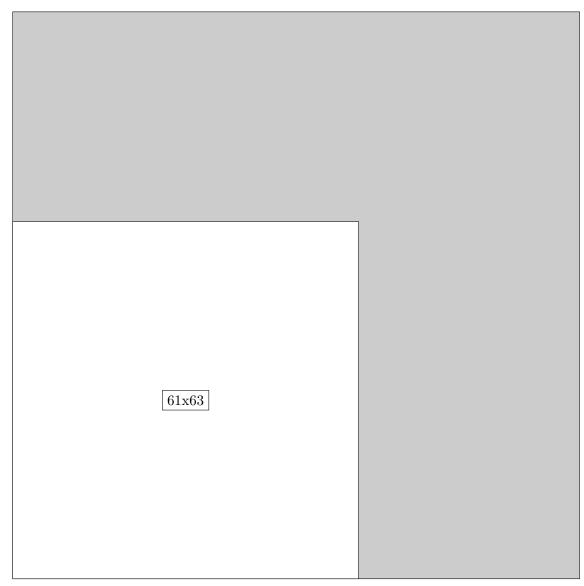
w = 61, h = 65, x = 0, y = 0, v = 3965



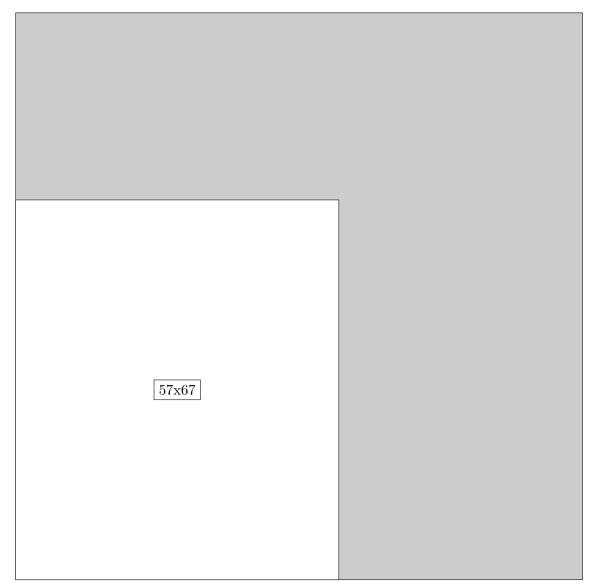
w = 67, h = 59, x = 0, y = 0, v = 3953



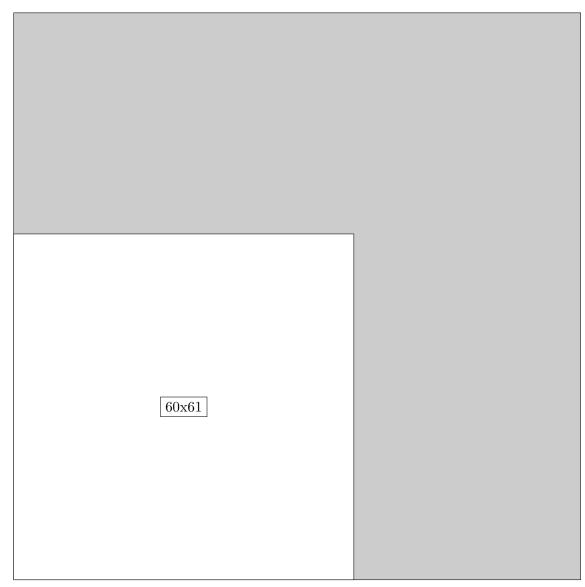
w = 76, h = 51, x = 0, y = 0, v = 3876



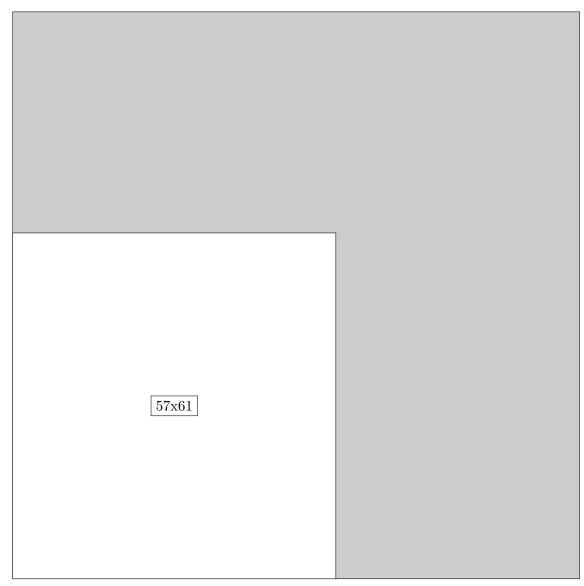
 $\overline{\mathbf{w}} = 61$, $\mathbf{h} = 63$, $\mathbf{x} = 0$, $\mathbf{y} = 0$, $\mathbf{v} = 3843$



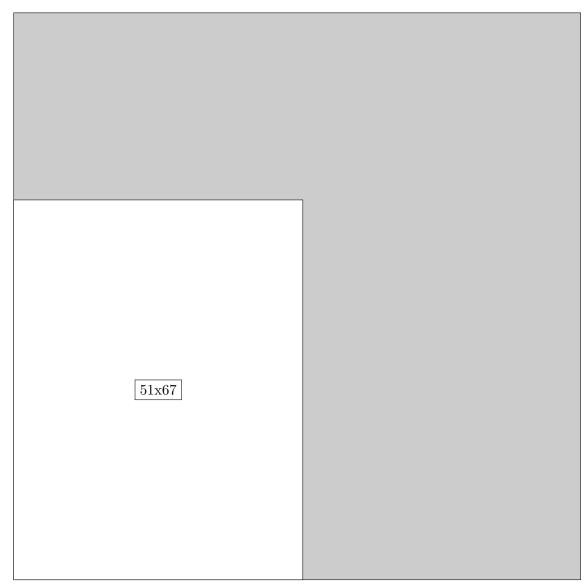
 $\overline{w} = 57$, h = 67, x = 0, y = 0, v = 3819



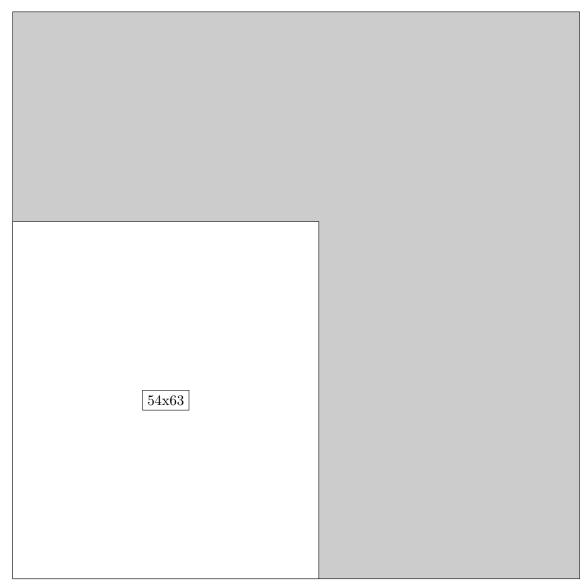
 $\overline{\mathbf{w}} = 60$, $\mathbf{h} = 61$, $\mathbf{x} = 0$, $\mathbf{y} = 0$, $\mathbf{v} = 3660$



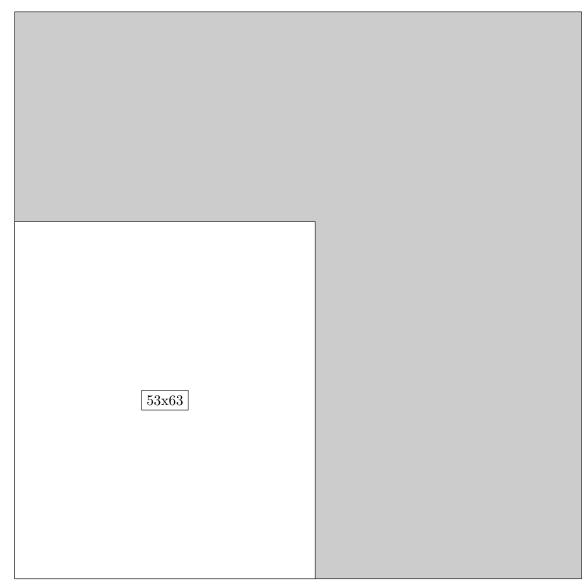
w = 57, h = 61, x = 0, y = 0, v = 3477



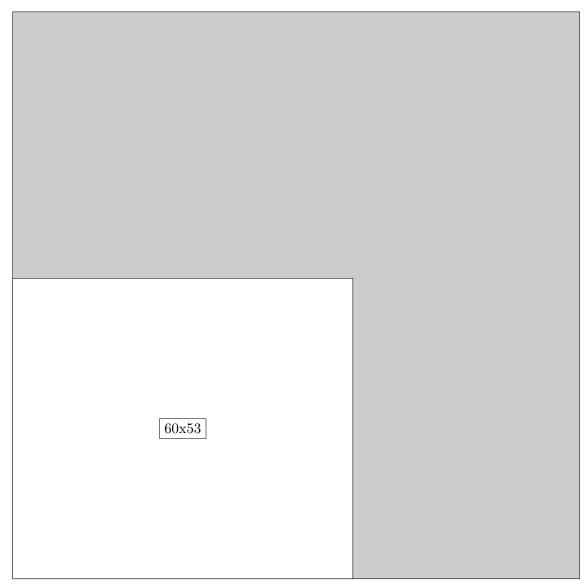
 $\overline{w} = 51$, h = 67, x = 0, y = 0, v = 3417



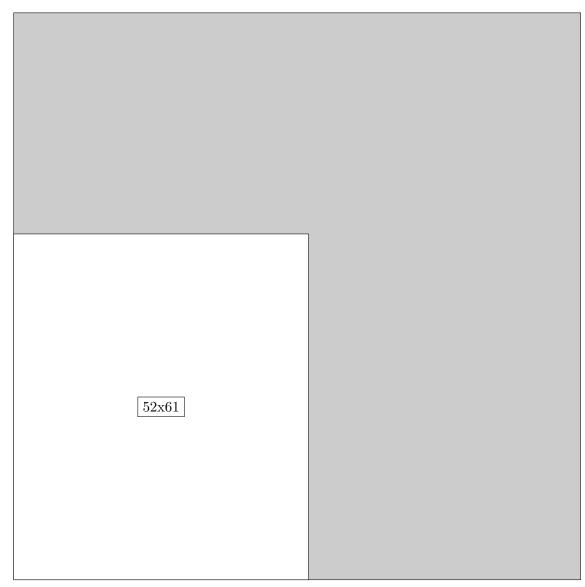
w = 54, h = 63, x = 0, y = 0, v = 3402



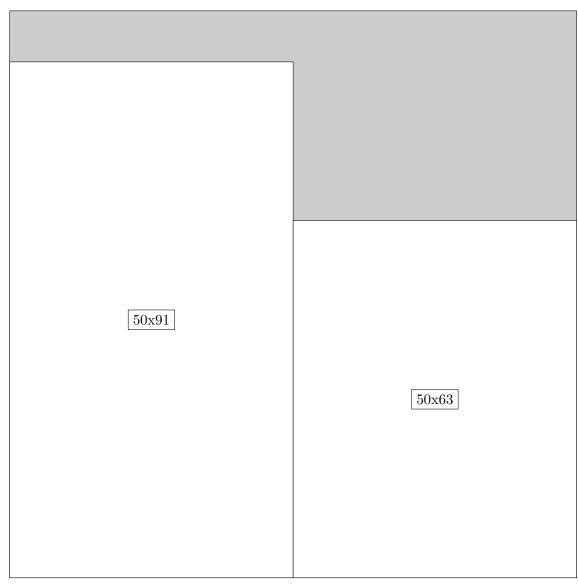
 $\overline{w} = 53$, h = 63, x = 0, y = 0, v = 3339



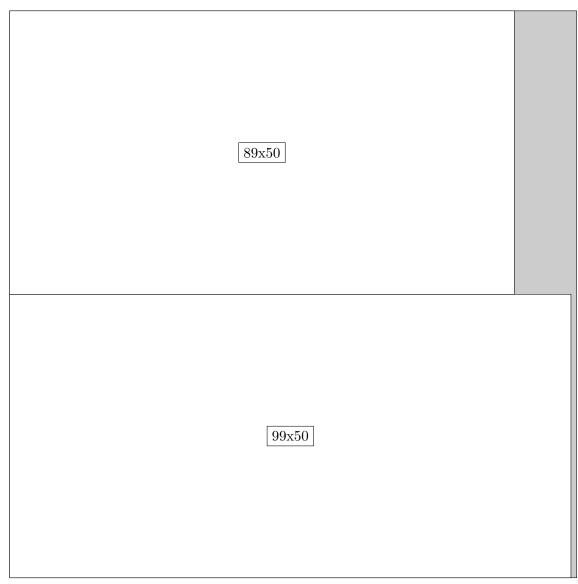
w = 60, h = 53, x = 0, y = 0, v = 3180



w = 52, h = 61, x = 0, y = 0, v = 3172



$$\begin{array}{c} w = \!\! 50 \ , \ h = \!\! 91 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 4550 \\ w = \!\! 50 \ , \ h = \!\! 63 \ , \ x = \!\! 50 \ , \ y = \!\! 0 \ , \ v = \!\! 3150 \end{array}$$



$$\begin{array}{c} w = 99 \; , \; h = \!\! 50 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 4950 \\ w = \!\! 89 \; , \; h = \!\! 50 \; , \; x = \!\! 0 \; , \; y = \!\! 50 \; , \; v = \!\! 4450 \\ \end{array}$$

