$ClassName: {\bf Class_09.2bp\text{-}31}$

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

TypeNum: <u>80</u> Num: <u>80</u> OutS: <u>580000</u> InS: <u>360266</u> Rate: <u>0.621</u> UB: <u>58</u> LB0: <u>58</u>

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

LB: **58**

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

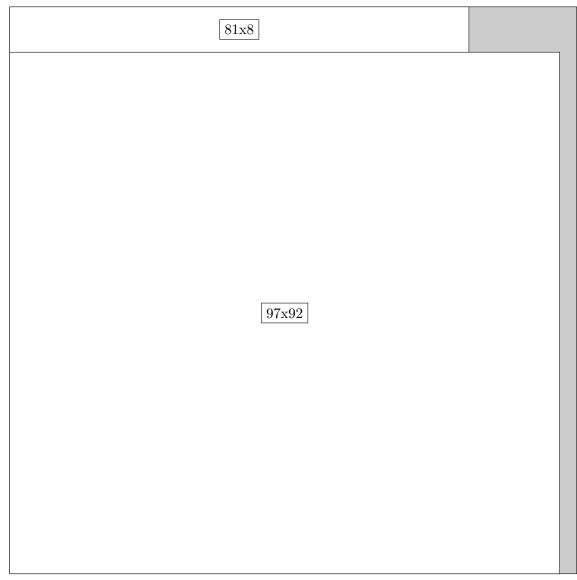
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{58}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

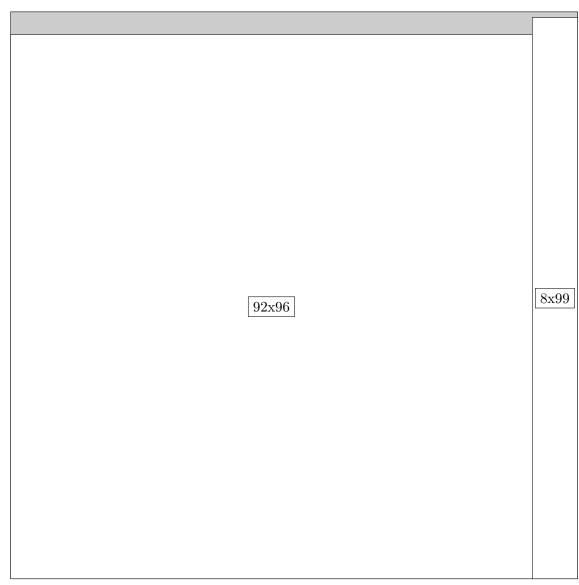
isOpt: **true**

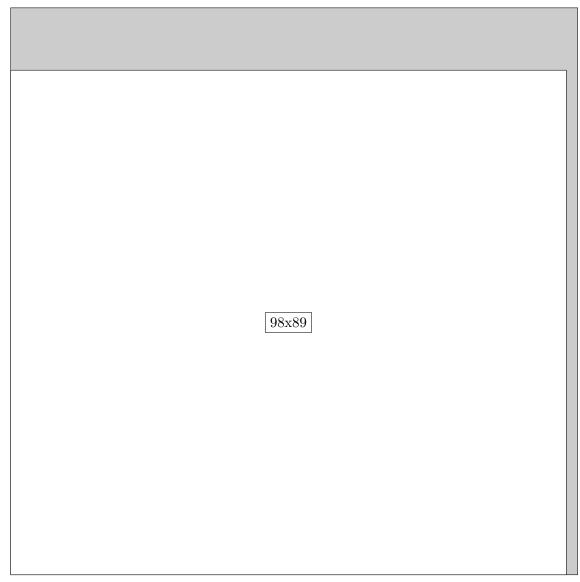
 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.310 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.062 \ s} \\ {\rm TotalTime:} \ \underline{0.451 \ s} \end{array}$



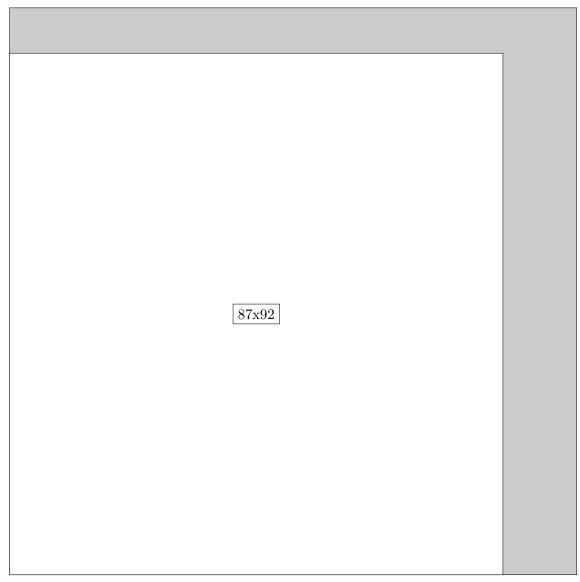
w = 99, h = 97, x = 0, y = 0, v = 9603



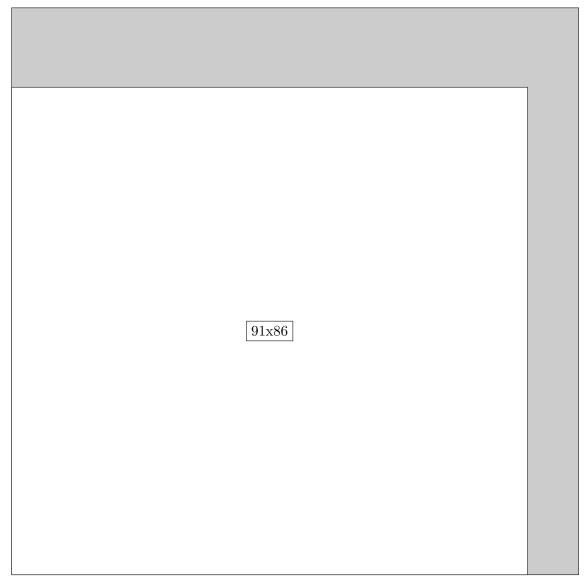




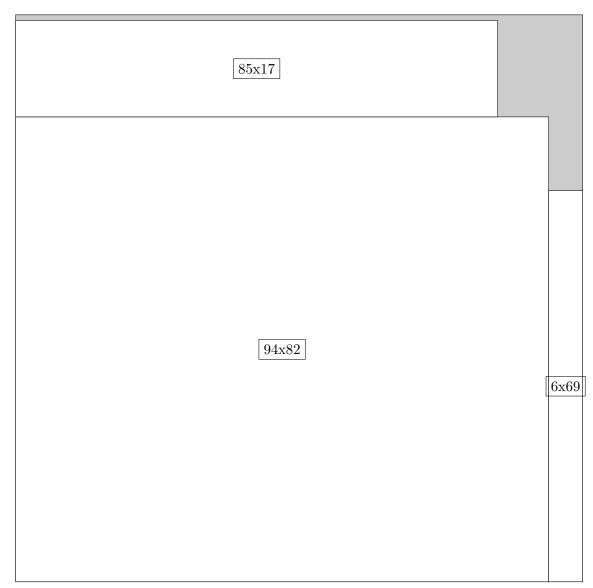
 $\le =98$, h =89 , x =0 , y =0 , v =8722



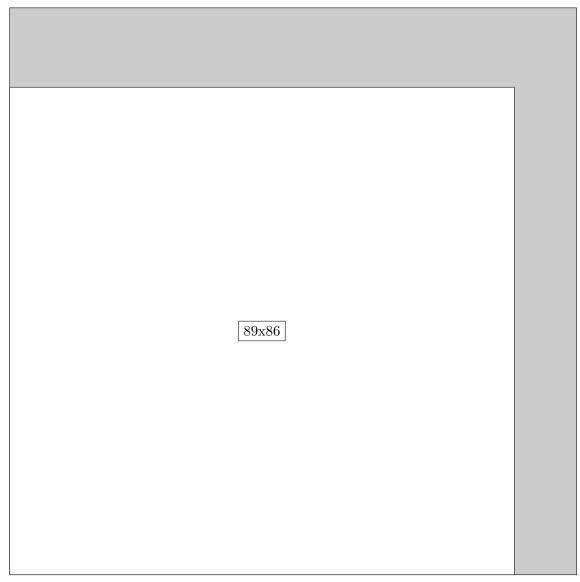
w = 87, h = 92, x = 0, y = 0, v = 8004



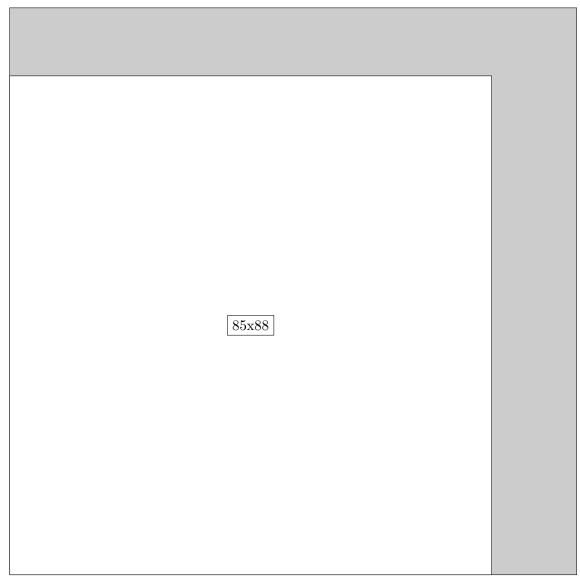
 $\le =91$, h =86 , x =0 , y =0 , v =7826



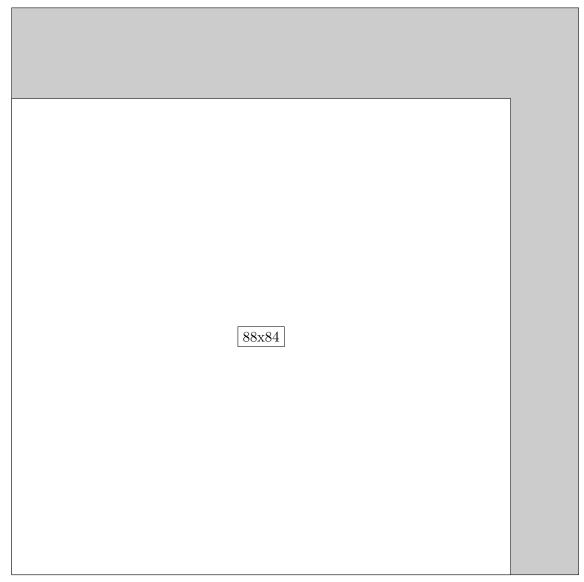
$$\begin{array}{l} w = \! 94 \; , \; h = \! 82 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 7708 \\ w = \! 85 \; , \; h = \! 17 \; , \; x = \! 0 \; , \; y = \! 82 \; , \; v = \! 1445 \\ w = \! 6 \; , \; h = \! 69 \; , \; x = \! 94 \; , \; y = \! 0 \; , \; v = \! 414 \end{array}$$



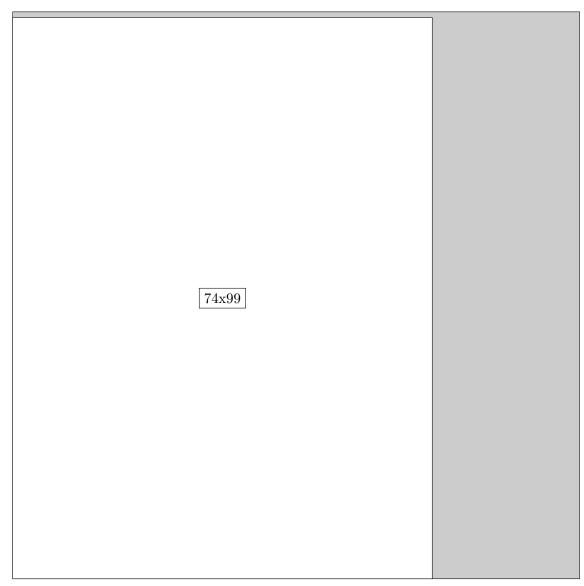
 $\le =89$, h =86 , x =0 , y =0 , v =7654



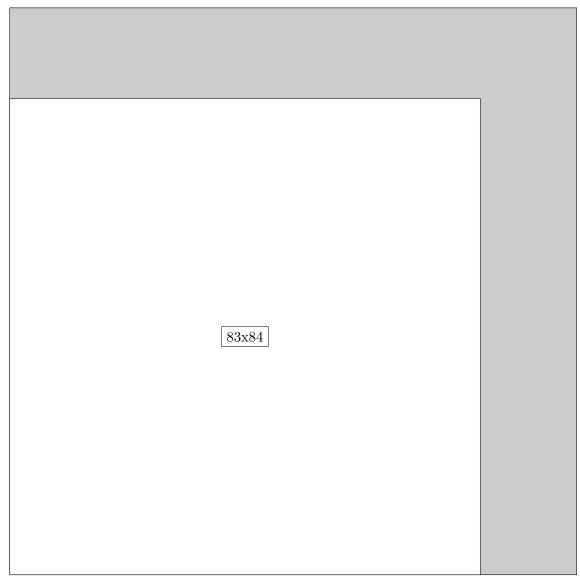
 $\le =85$, h =88 , x =0 , y =0 , v =7480



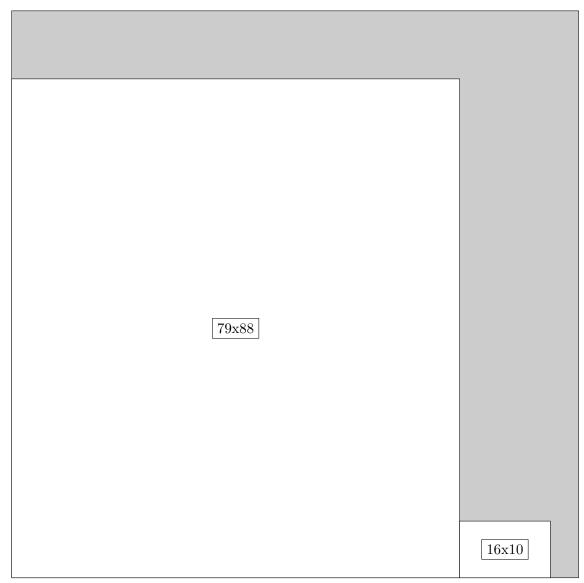
 $\le =88$, h =84 , x =0 , y =0 , v =7392

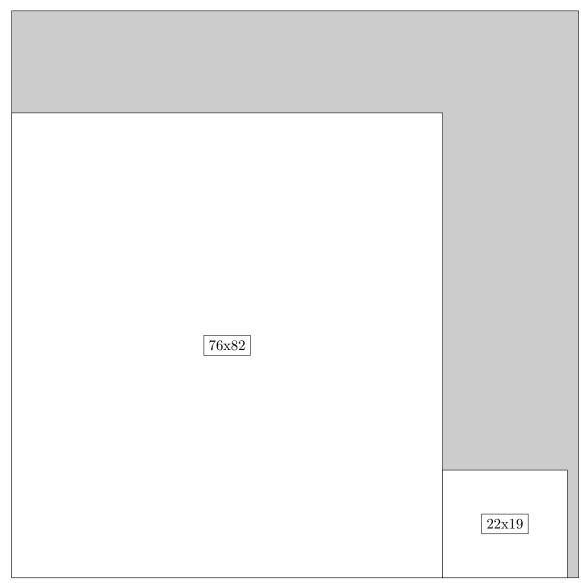


w = 74, h = 99, x = 0, y = 0, v = 7326

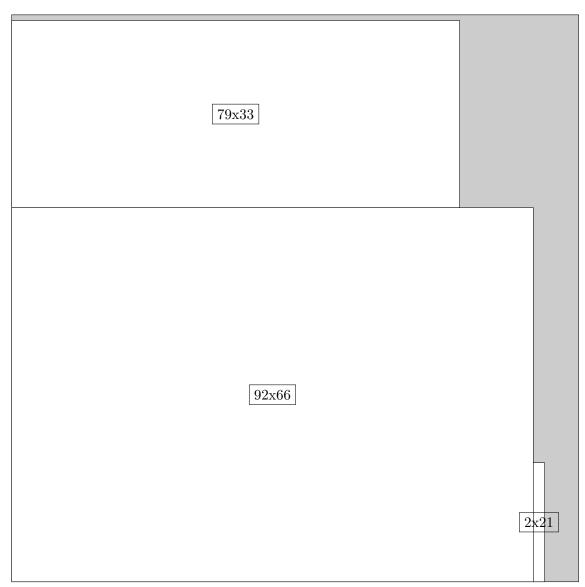


 $\le =83$, h =84 , x =0 , y =0 , v =6972

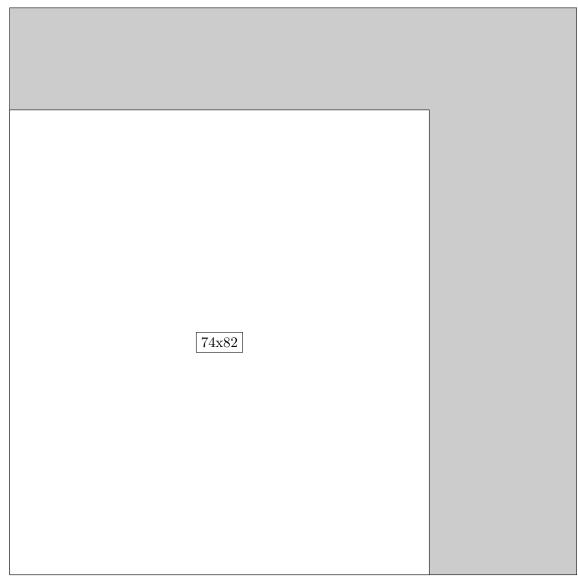




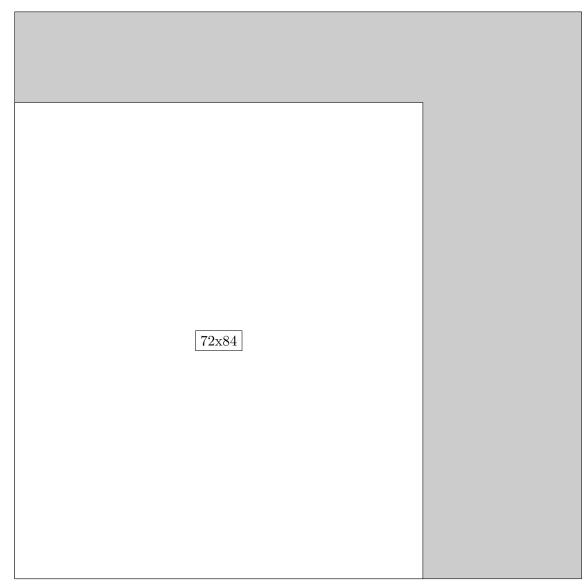




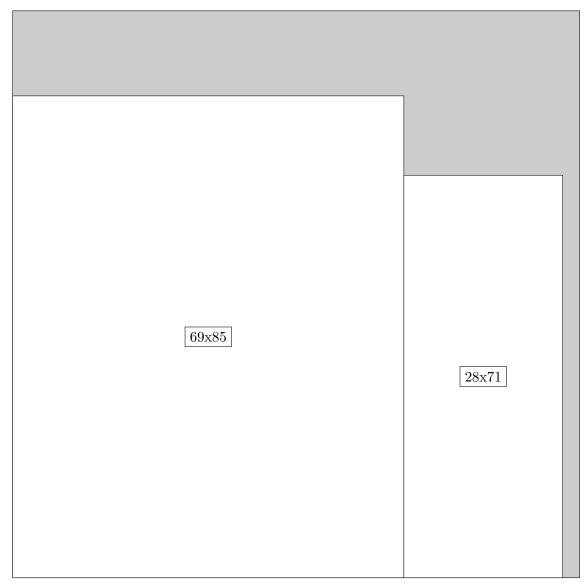
$$\begin{array}{l} w = 92 \ , \ h = 66 \ , \ x = 0 \ , \ y = 0 \ , \ v = 6072 \\ w = 79 \ , \ h = 33 \ , \ x = 0 \ , \ y = 66 \ , \ v = 2607 \\ w = 2 \ , \ h = 21 \ , \ x = 92 \ , \ y = 0 \ , \ v = 42 \end{array}$$

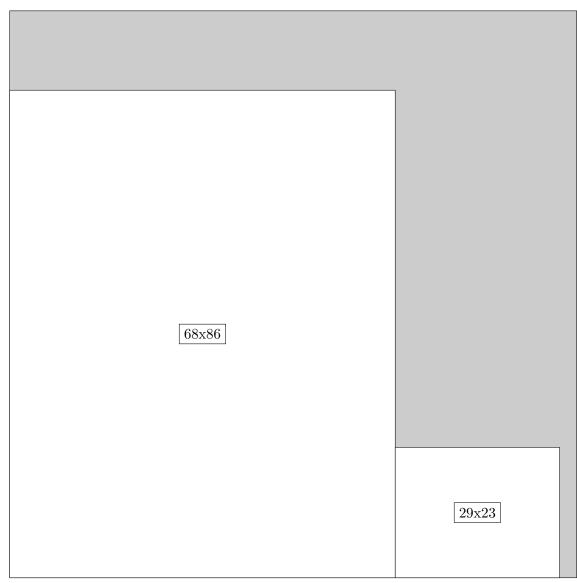


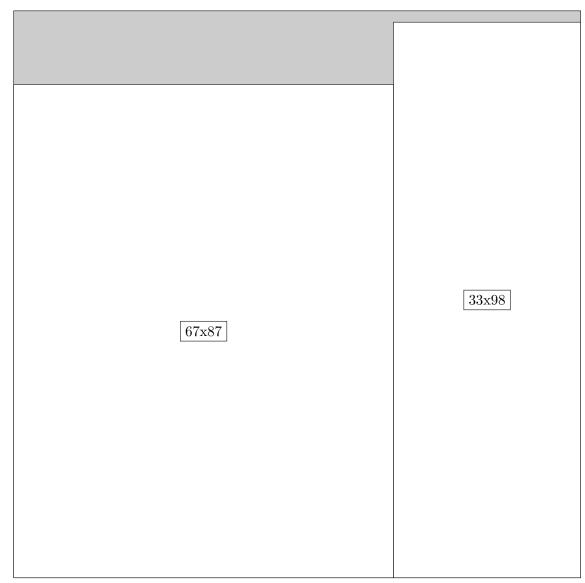
w = 74, h = 82, x = 0, y = 0, v = 6068



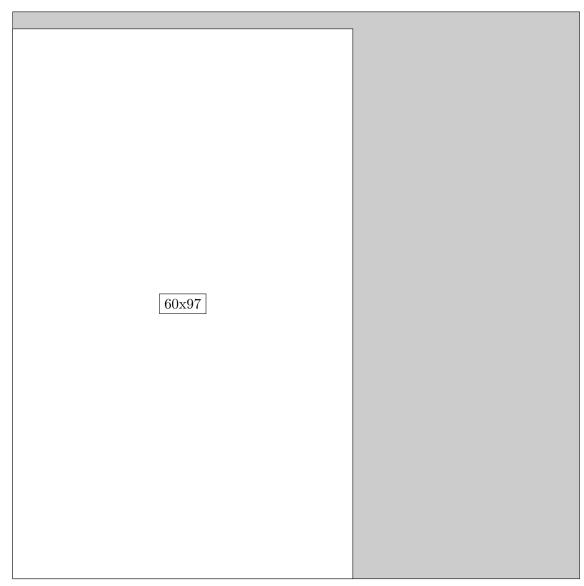
w = 72, h = 84, x = 0, y = 0, v = 6048



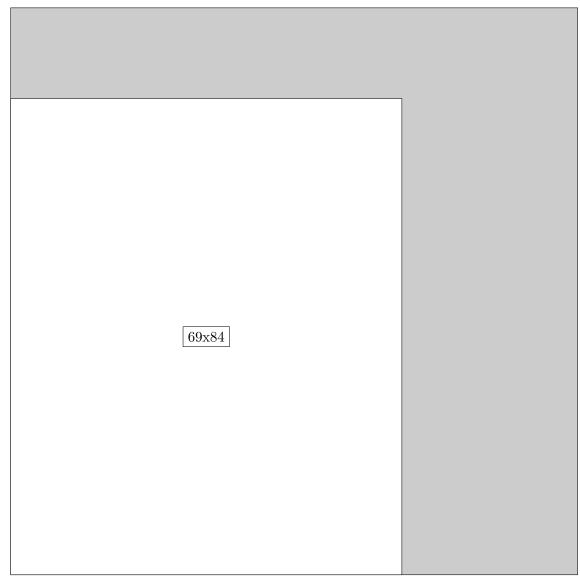




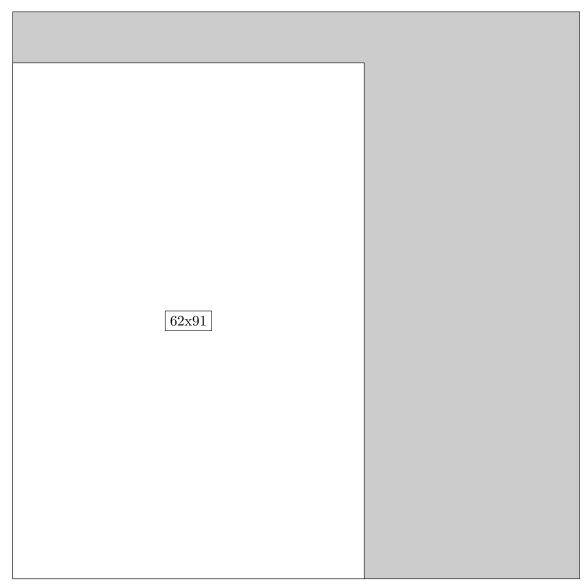
$$\begin{array}{c} w = \!\!67 \; , \; h = \!\!87 \; , \; x = \!\!0 \; , \; y = \!\!0 \; , \; v = \!\!5829 \\ w = \!\!33 \; , \; h = \!\!98 \; , \; x = \!\!67 \; , \; y = \!\!0 \; , \; v = \!\!3234 \\ \end{array}$$



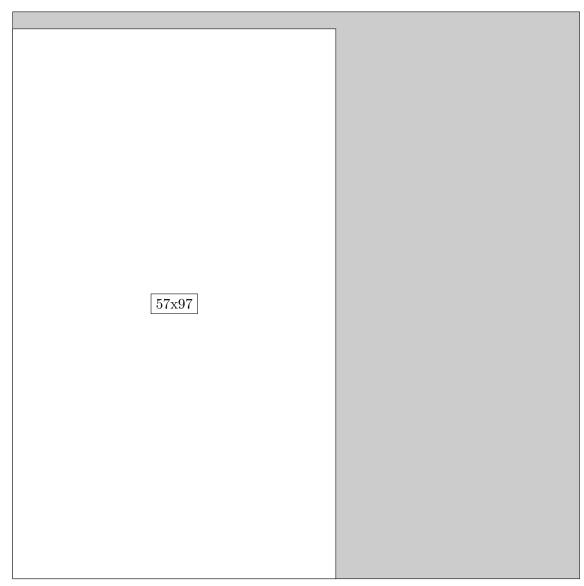
w = 60, h = 97, x = 0, y = 0, v = 5820



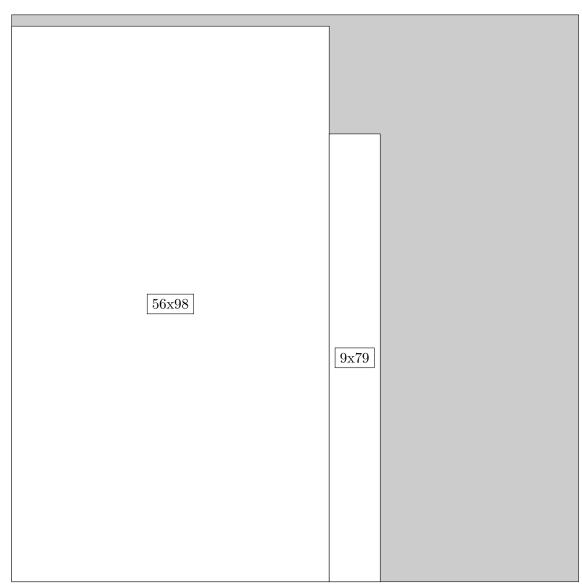
w = 69, h = 84, x = 0, y = 0, v = 5796



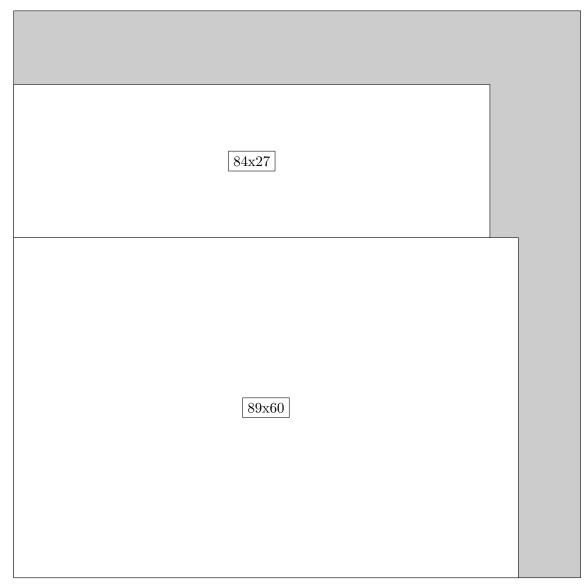
w = 62, h = 91, x = 0, y = 0, v = 5642



 \mathbf{w} =57 , h =97 , x =0 , y =0 , v =5529

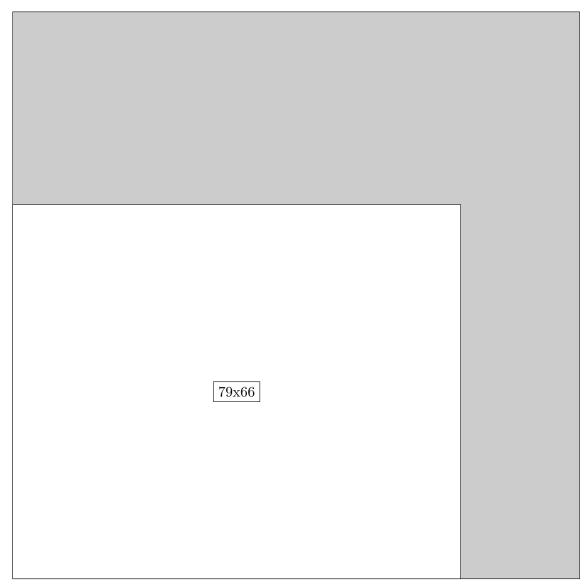


w = 56, h = 98, x = 0, y = 0, v = 5488 w = 9, h = 79, x = 56, y = 0, v = 711

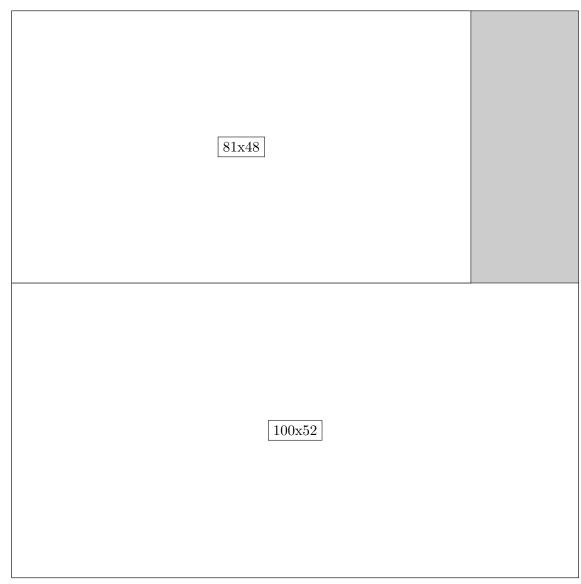


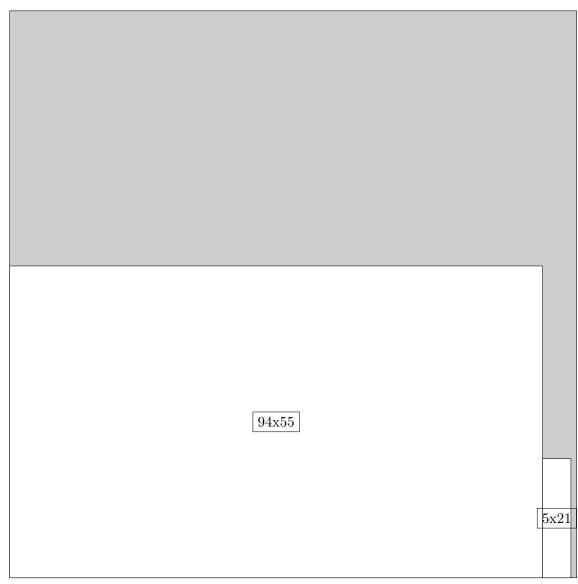


$$\begin{array}{l} w = \! 96 \ , \ h = \! 55 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 5280 \\ w = \! 78 \ , \ h = \! 43 \ , \ x = \! 0 \ , \ y = \! 55 \ , \ v = \! 3354 \end{array}$$

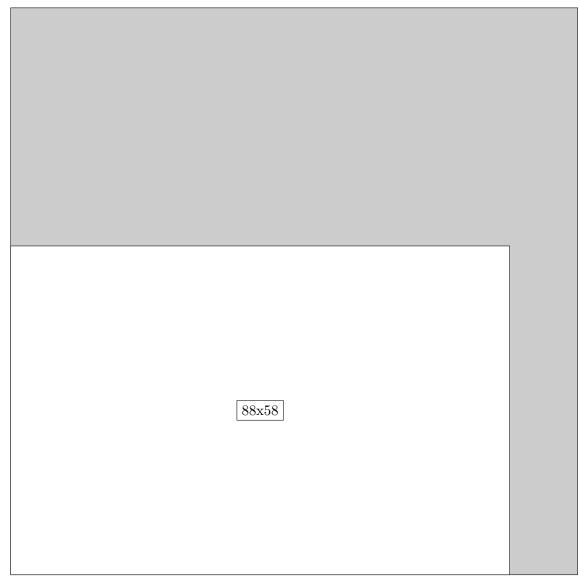


w = 79, h = 66, x = 0, y = 0, v = 5214

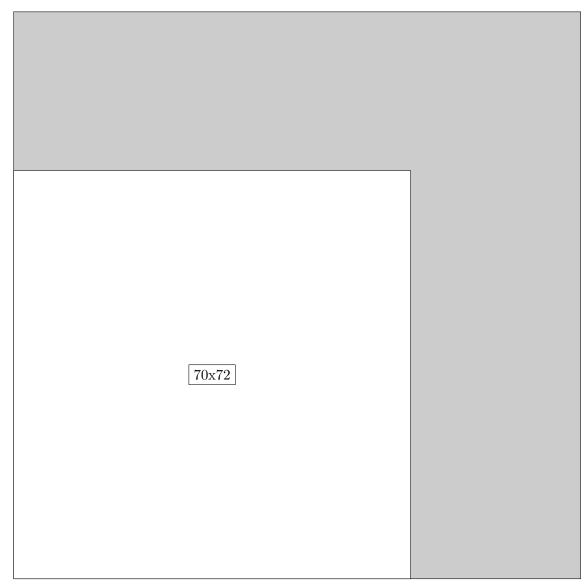




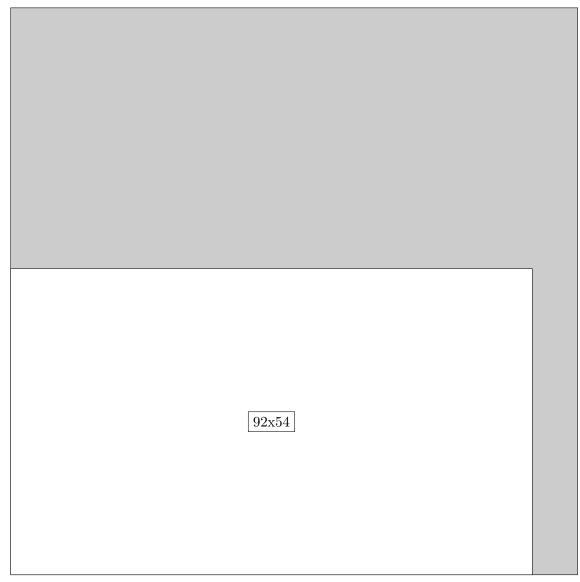
 $\begin{array}{l} w = \! 94 \ , \, h = \! 55 \ , \, x = \! 0 \ , \, y = \! 0 \ , \, v = \! 5170 \\ w = \! 5 \ , \, h = \! 21 \ , \, x = \! 94 \ , \, y = \! 0 \ , \, v = \! 105 \end{array}$



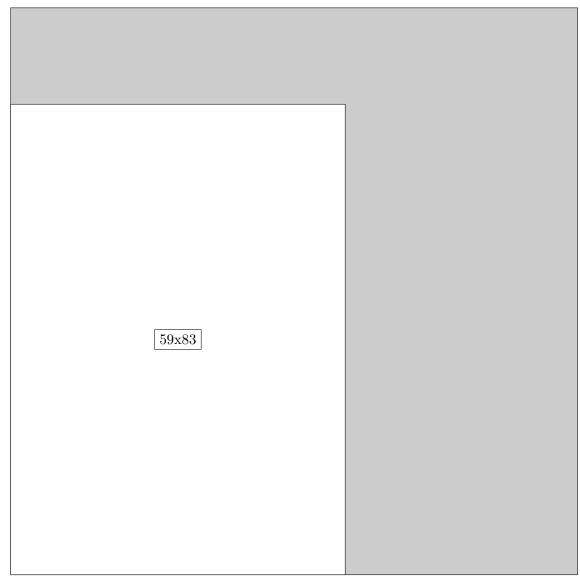
 $\le =88$, h =58 , x =0 , y =0 , v =5104



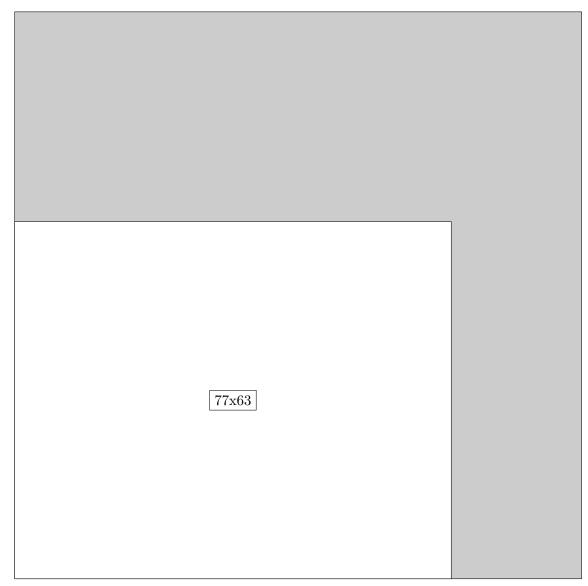
w = 70, h = 72, x = 0, y = 0, v = 5040



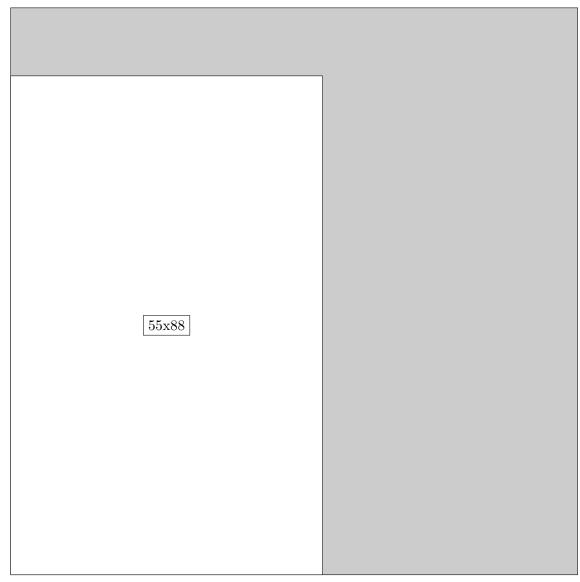
w = 92, h = 54, x = 0, y = 0, v = 4968



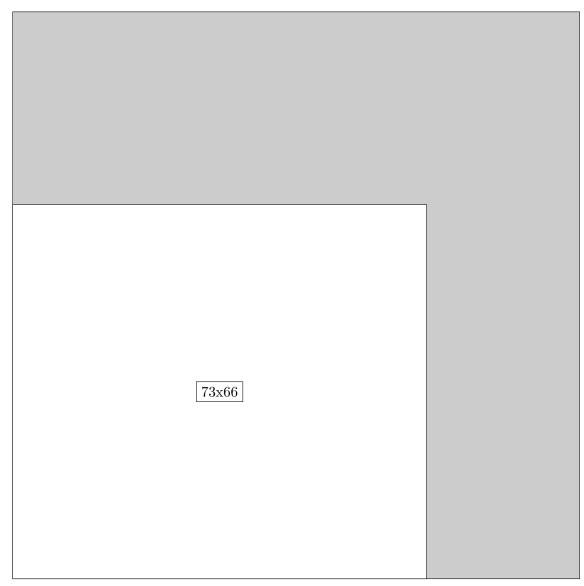
w = 59, h = 83, x = 0, y = 0, v = 4897



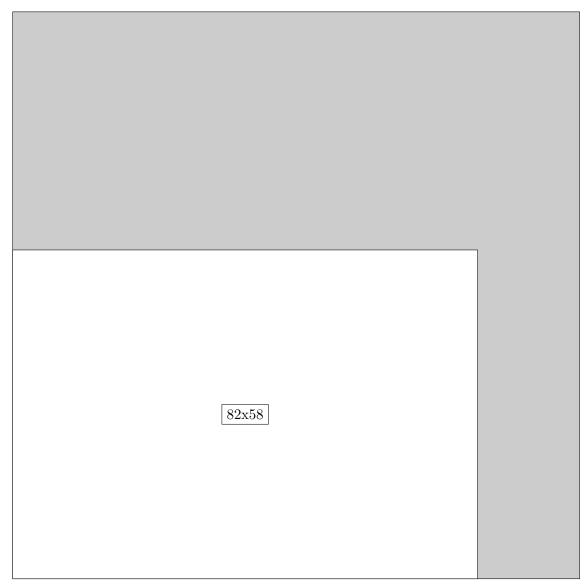
 \mathbf{w} =77 , h =63 , x =0 , y =0 , v =4851



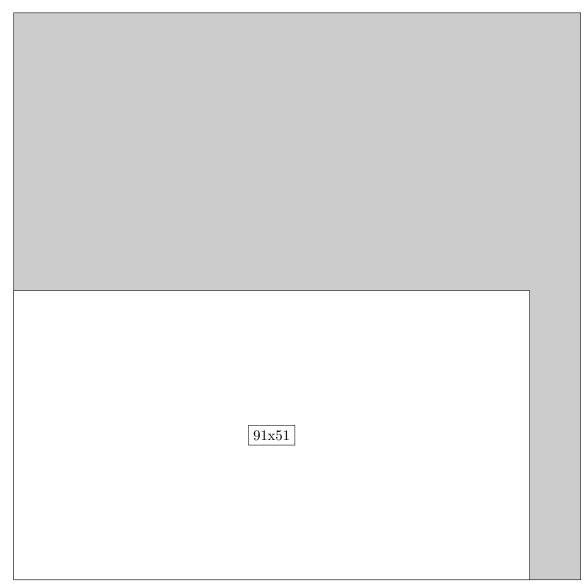
w = 55, h = 88, x = 0, y = 0, v = 4840



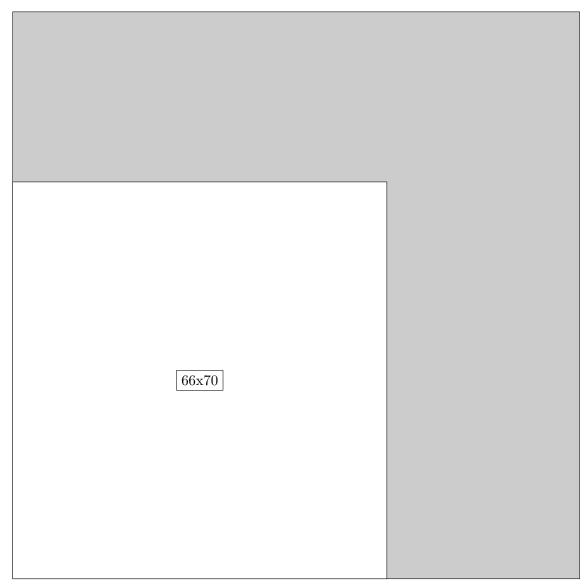
 $\overline{\rm w}$ =73 , h =66 , x =0 , y =0 , v =4818



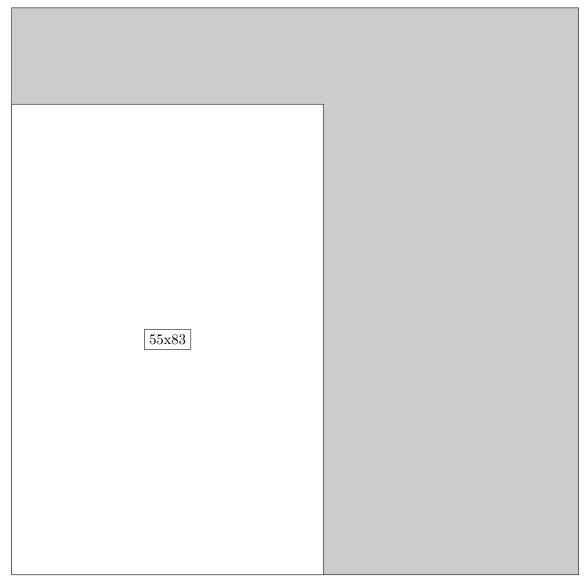
 $\le =82$, h =58 , x =0 , y =0 , v =4756



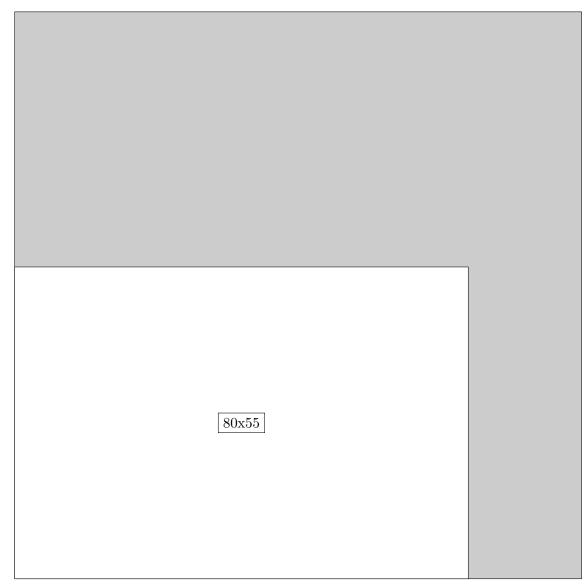
 $\le =91$, h =51 , x =0 , y =0 , v =4641



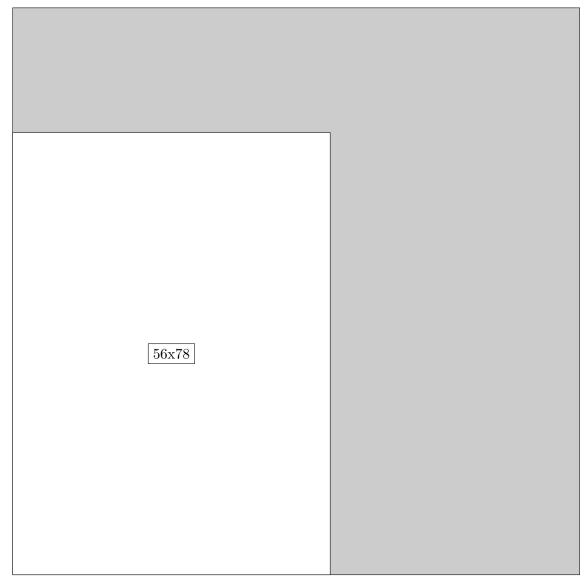
w = 66, h = 70, x = 0, y = 0, v = 4620



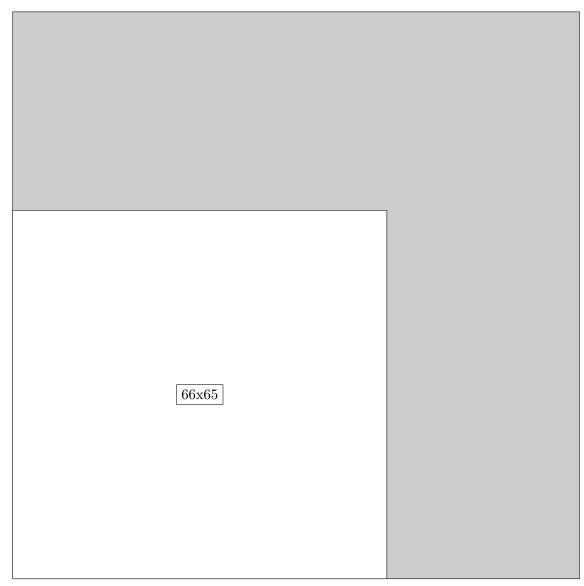
w = 55, h = 83, x = 0, y = 0, v = 4565



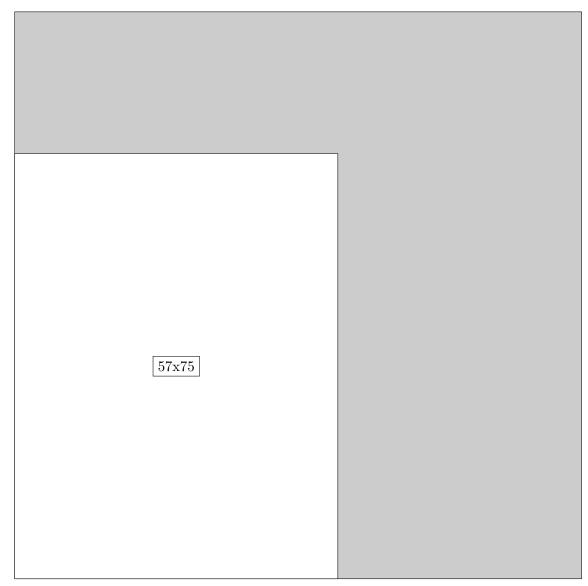
 $\le =80$, h =55 , x =0 , y =0 , v =4400



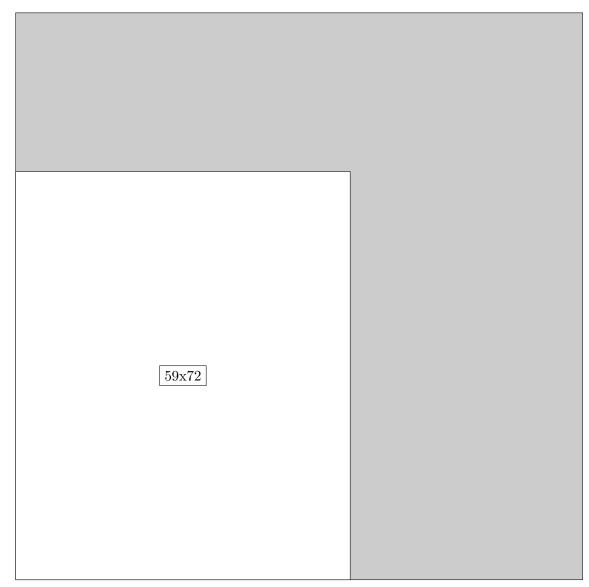
w = 56, h = 78, x = 0, y = 0, v = 4368



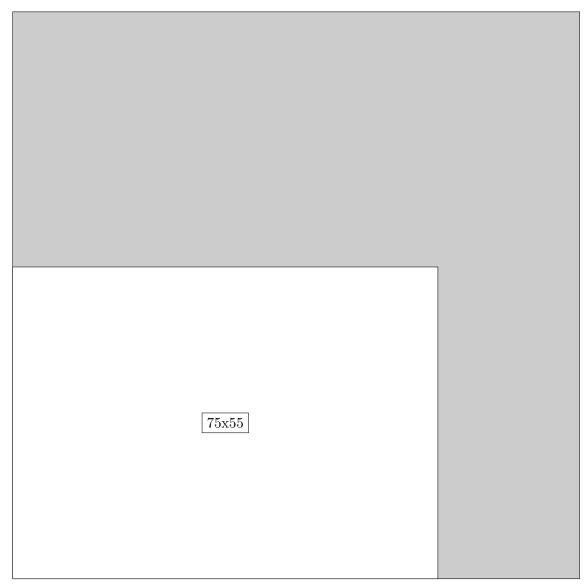
w = 66, h = 65, x = 0, y = 0, v = 4290



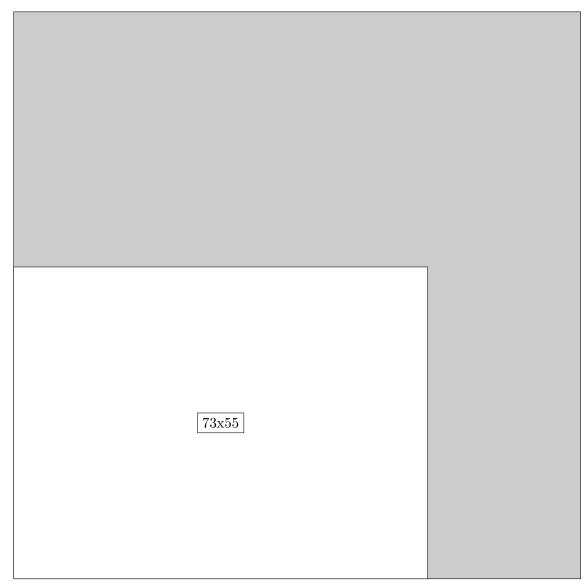
w = 57, h = 75, x = 0, y = 0, v = 4275



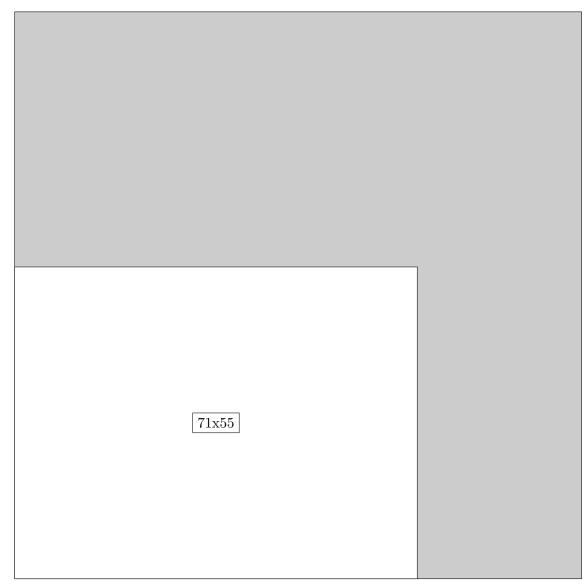
w = 59, h = 72, x = 0, y = 0, v = 4248



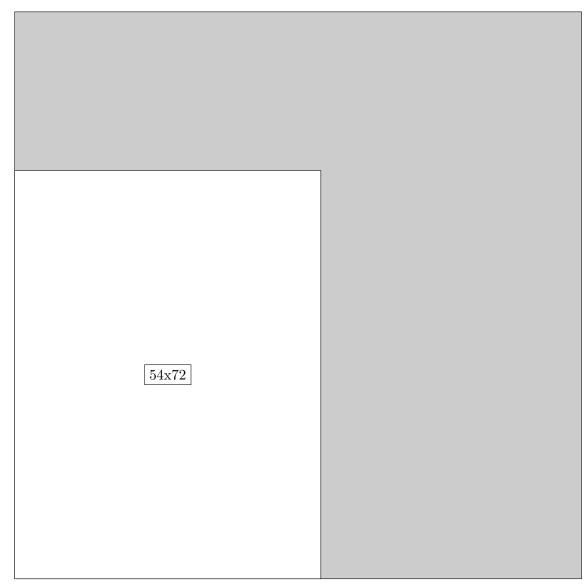
w = 75, h = 55, x = 0, y = 0, v = 4125



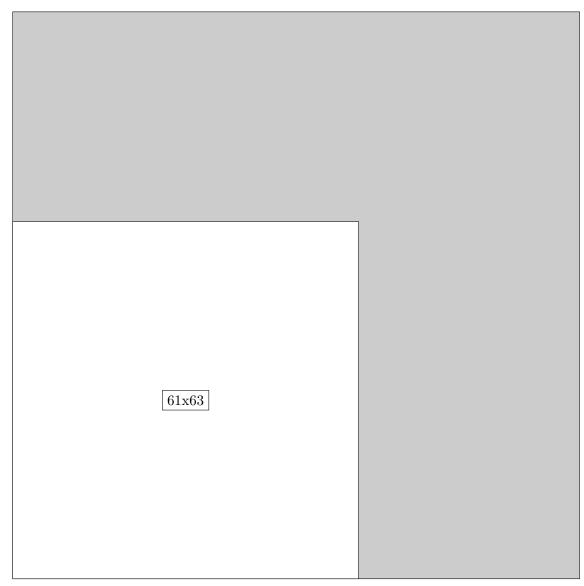
 $\overline{\mathbf{w}=}73$, h =55 , x =0 , y =0 , v =4015



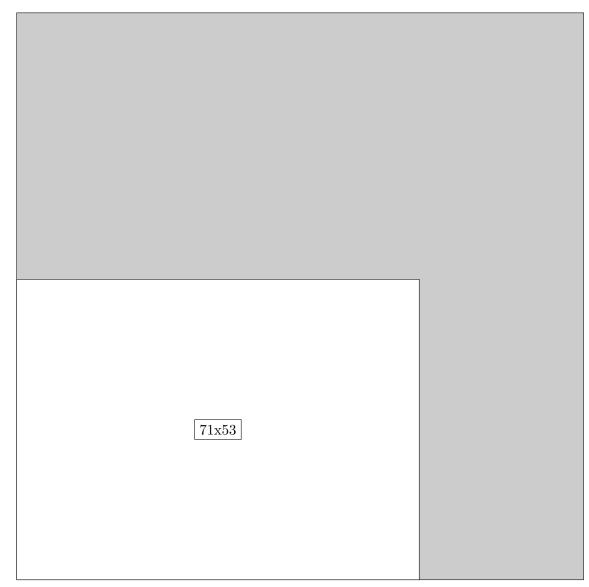
 $\overline{\mathbf{w}}$ =71 , h =55 , x =0 , y =0 , v =3905



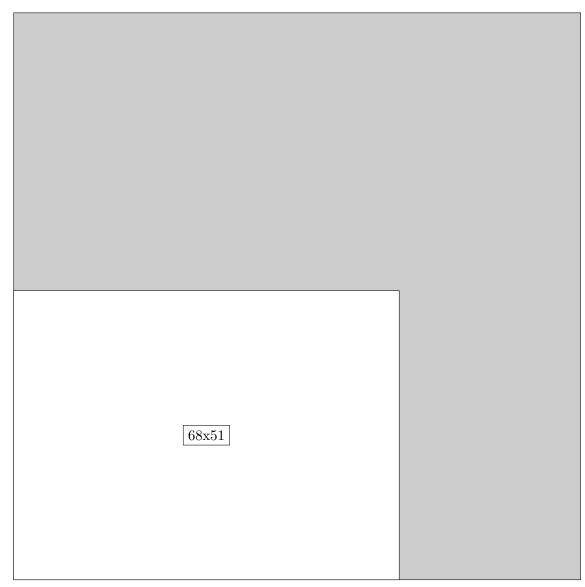
w = 54, h = 72, x = 0, y = 0, v = 3888



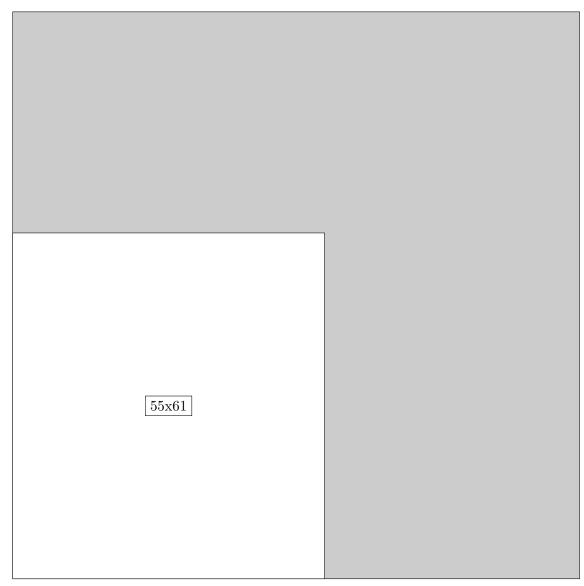
 $\overline{\mathbf{w}} = 61$, $\mathbf{h} = 63$, $\mathbf{x} = 0$, $\mathbf{y} = 0$, $\mathbf{v} = 3843$



w = 71, h = 53, x = 0, y = 0, v = 3763



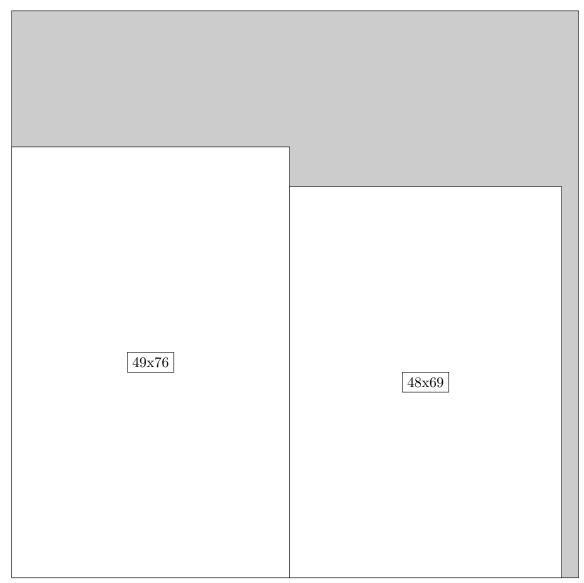
 $\le =68$, h =51 , x =0 , y =0 , v =3468

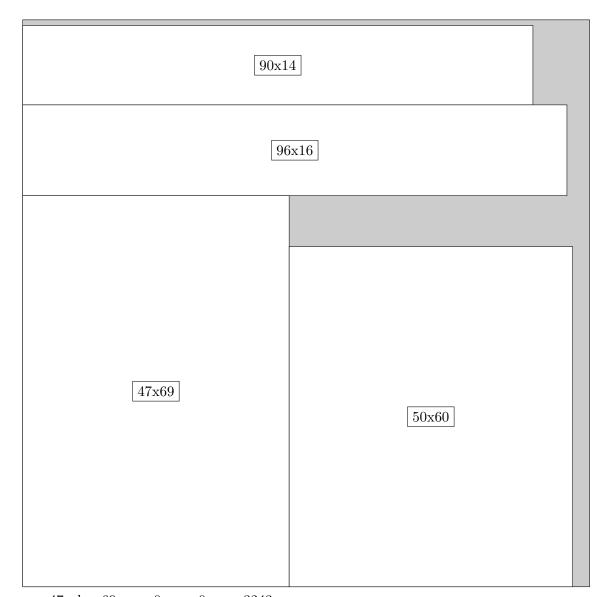


w = 55, h = 61, x = 0, y = 0, v = 3355



$$\begin{array}{c} w = 96 \; , \; h = \!\! 50 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 4800 \\ w = \!\! 69 \; , \; h = \!\! 50 \; , \; x = \!\! 0 \; , \; y = \!\! 50 \; , \; v = \!\! 3450 \\ \end{array}$$





$$\begin{array}{l} w = \!\! 47 \ , \ h = \!\! 69 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 3243 \\ w = \!\! 90 \ , \ h = \!\! 14 \ , \ x = \!\! 0 \ , \ y = \!\! 85 \ , \ v = \!\! 1260 \end{array}$$

$$\le =96$$
 , h =16 , x =0 , y =69 , v =1536

$$w = 96$$
, $h = 16$, $x = 0$, $y = 69$, $v = 1536$

$$w=\!50$$
 , $h=\!60$, $x=\!47$, $y=\!0$, $v=\!3000$