$ClassName: {\bf Class_07.2bp\text{-}31}$

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

TypeNum: <u>79</u> Num: <u>80</u> OutS: <u>250000</u> InS: <u>209200</u> Rate: <u>0.837</u> UB: <u>25</u> LB0: <u>25</u>

LBWithCut: $\underline{25}$ NodeCut: $\underline{0}$

LB: **25**

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

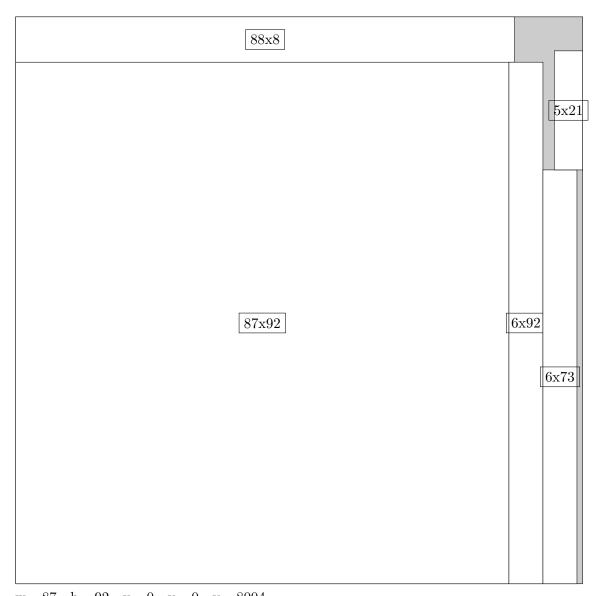
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{25}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

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

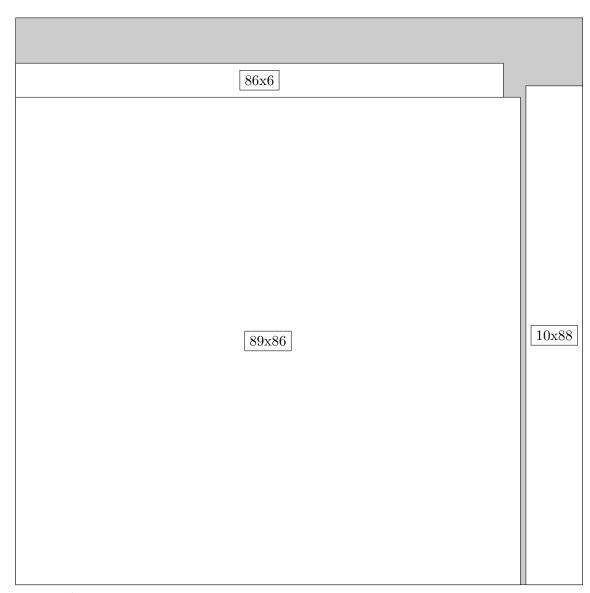
 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.120 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.062 \ s} \\ {\rm TotalTime:} \ \underline{0.261 \ s} \end{array}$



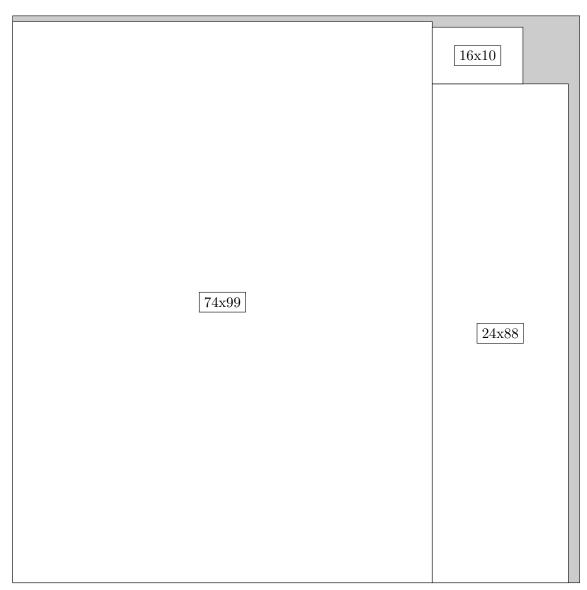
w = 99, h = 97, x = 0, y = 0, v = 9603



 $\begin{array}{l} w = \! 87 \;,\; h = \! 92 \;,\; x = \! 0 \;,\; y = \! 0 \;,\; v = \! 8004 \\ w = \! 88 \;,\; h = \! 8 \;,\; x = \! 0 \;,\; y = \! 92 \;,\; v = \! 704 \\ w = \! 6 \;,\; h = \! 92 \;,\; x = \! 87 \;,\; y = \! 0 \;,\; v = \! 552 \\ w = \! 6 \;,\; h = \! 73 \;,\; x = \! 93 \;,\; y = \! 0 \;,\; v = \! 438 \\ w = \! 5 \;,\; h = \! 21 \;,\; x = \! 95 \;,\; y = \! 73 \;,\; v = \! 105 \end{array}$



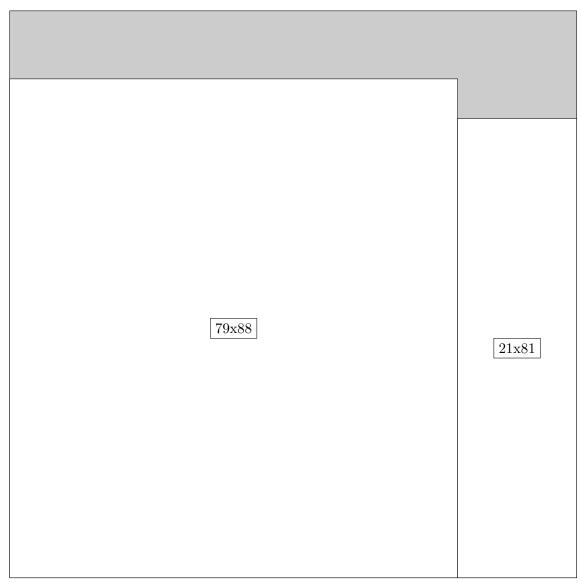
$$\begin{array}{l} w = & 10 \ , \ h = & 88 \ , \ x = & 90 \ , \ y = & 0 \ , \ v = & 880 \\ w = & 86 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 86 \ , \ v = & 516 \end{array}$$



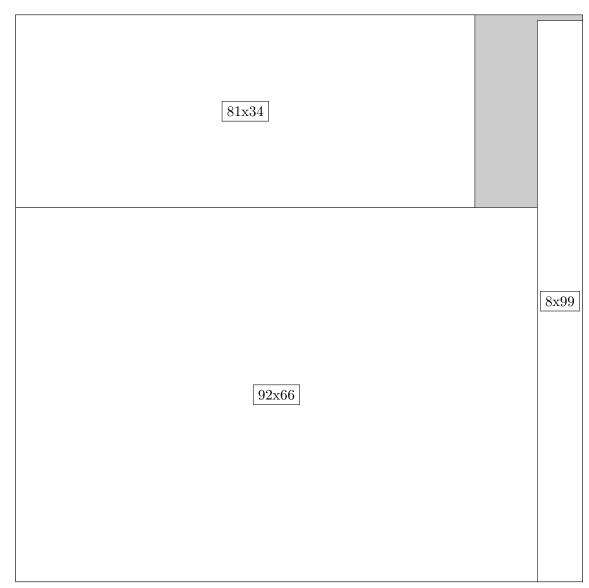
$$w = 74$$
, $h = 99$, $x = 0$, $y = 0$, $v = 7326$

$$\le =24$$
 , h =88 , x =74 , y =0 , v =2112

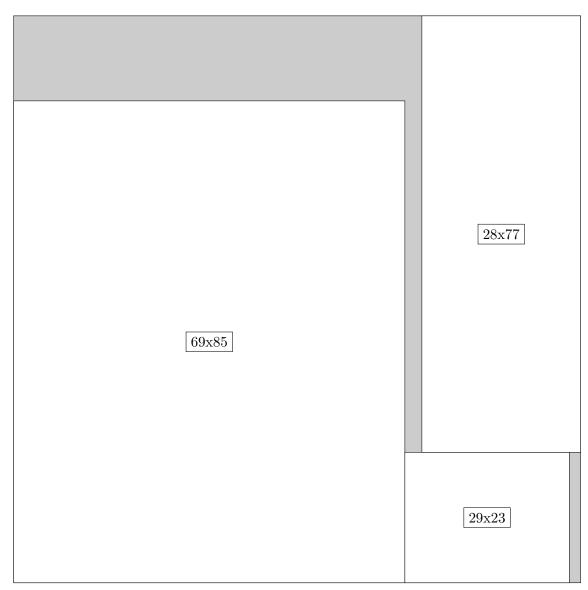
$$\le =16$$
 , $h=10$, $x=74$, $y=88$, $v=160$



$$\begin{array}{c} w = 79 \; , \; h = 88 \; , \; x = 0 \; , \; y = 0 \; , \; v = 6952 \\ w = 21 \; , \; h = 81 \; , \; x = 79 \; , \; y = 0 \; , \; v = 1701 \\ \end{array}$$



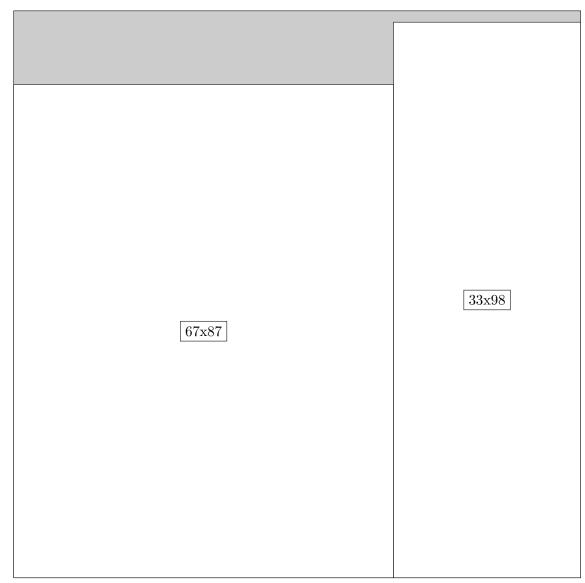
$$\begin{array}{l} w = 92 \ , \ h = 66 \ , \ x = 0 \ , \ y = 0 \ , \ v = 6072 \\ w = 81 \ , \ h = 34 \ , \ x = 0 \ , \ y = 66 \ , \ v = 2754 \\ w = 8 \ , \ h = 99 \ , \ x = 92 \ , \ y = 0 \ , \ v = 792 \end{array}$$



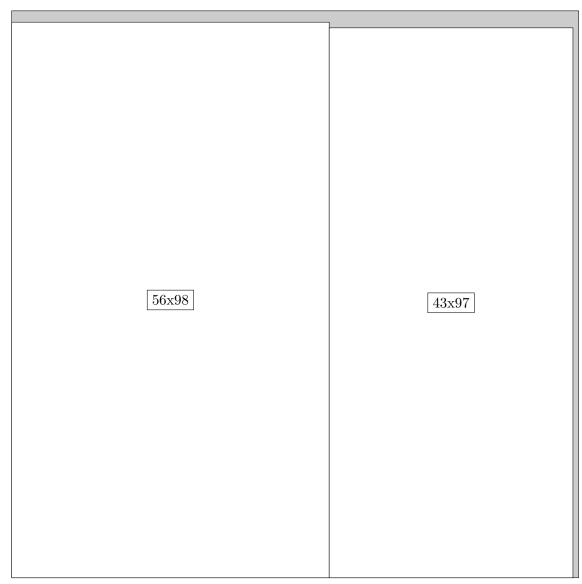
$$w = 69$$
, $h = 85$, $x = 0$, $y = 0$, $v = 5865$

$$\le =28$$
 , h =77 , x =72 , y =23 , v =2156

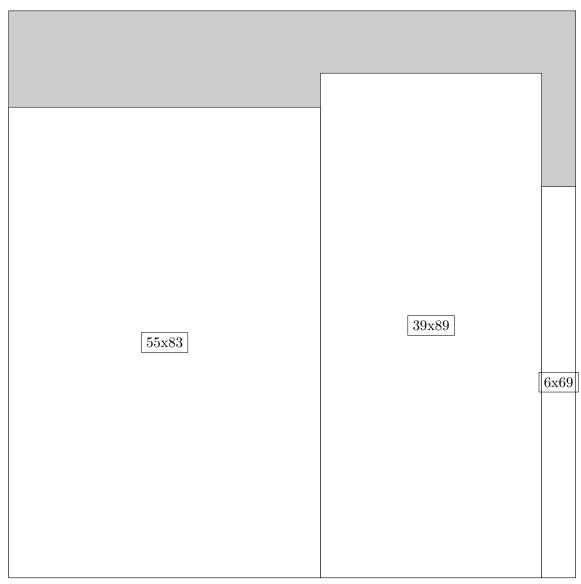
$$\le =29$$
 , h =23 , x =69 , y =0 , v =667



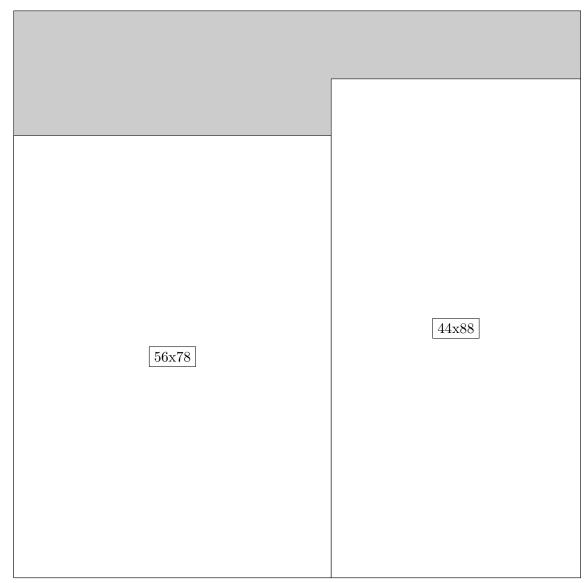
$$\begin{array}{c} w = \!\!67 \; , \; h = \!\!87 \; , \; x = \!\!0 \; , \; y = \!\!0 \; , \; v = \!\!5829 \\ w = \!\!33 \; , \; h = \!\!98 \; , \; x = \!\!67 \; , \; y = \!\!0 \; , \; v = \!\!3234 \\ \end{array}$$

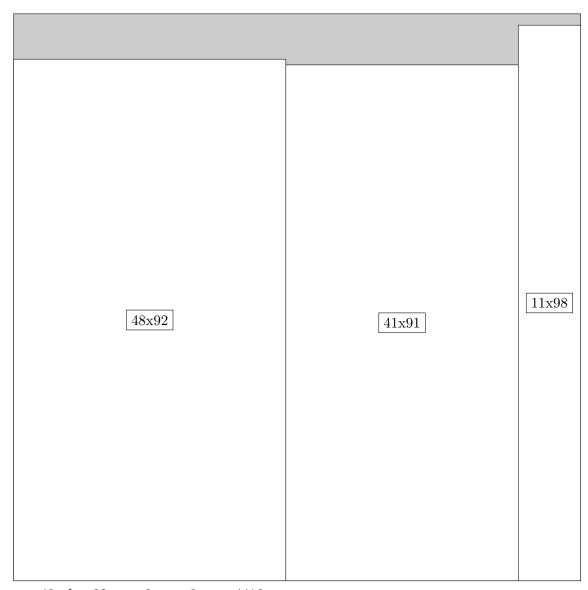


$$\begin{array}{c} w = \!\! 56 \; , \; h = \!\! 98 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 5488 \\ w = \!\! 43 \; , \; h = \!\! 97 \; , \; x = \!\! 56 \; , \; y = \!\! 0 \; , \; v = \!\! 4171 \end{array}$$

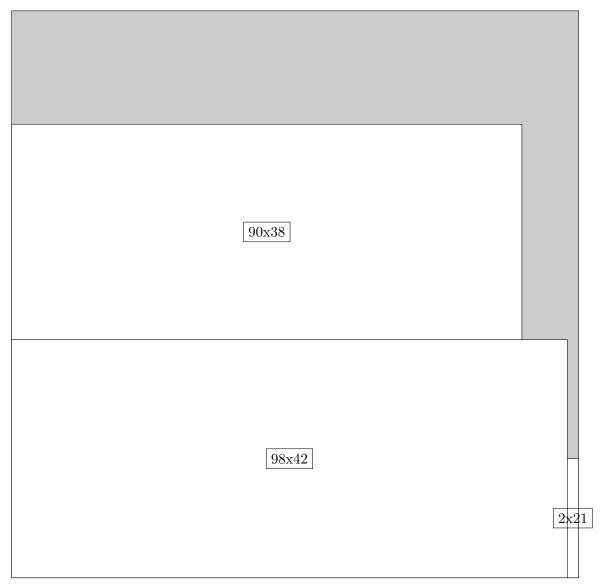


 $\begin{array}{l} w = \! 55 \ , \ h = \! 83 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 4565 \\ w = \! 39 \ , \ h = \! 89 \ , \ x = \! 55 \ , \ y = \! 0 \ , \ v = \! 3471 \\ w = \! 6 \ , \ h = \! 69 \ , \ x = \! 94 \ , \ y = \! 0 \ , \ v = \! 414 \end{array}$

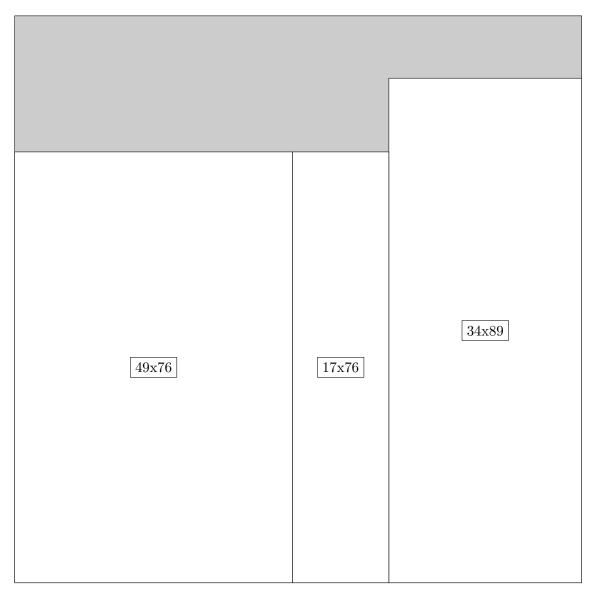




$$\begin{array}{l} w = \!\! 48 \ , \ h = \!\! 92 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 4416 \\ w = \!\! 41 \ , \ h = \!\! 91 \ , \ x = \!\! 48 \ , \ y = \!\! 0 \ , \ v = \!\! 3731 \\ w = \!\! 11 \ , \ h = \!\! 98 \ , \ x = \!\! 89 \ , \ y = \!\! 0 \ , \ v = \!\! 1078 \end{array}$$



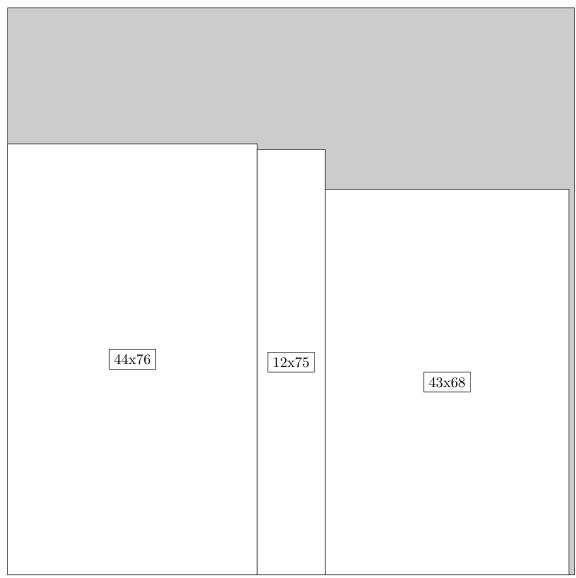
 $\begin{array}{l} w = \! 98 \ , \ h = \! 42 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 4116 \\ w = \! 90 \ , \ h = \! 38 \ , \ x = \! 0 \ , \ y = \! 42 \ , \ v = \! 3420 \\ w = \! 2 \ , \ h = \! 21 \ , \ x = \! 98 \ , \ y = \! 0 \ , \ v = \! 42 \end{array}$



w = 49, h = 76, x = 0, y = 0, v = 3724

 $\le =34$, h =89 , x =66 , y =0 , v =3026

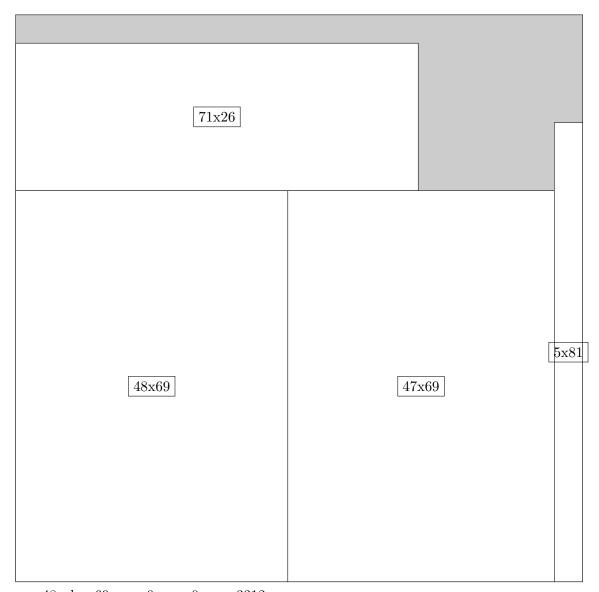
 \mathbf{w} =17 , \mathbf{h} =76 , \mathbf{x} =49 , \mathbf{y} =0 , \mathbf{v} =1292



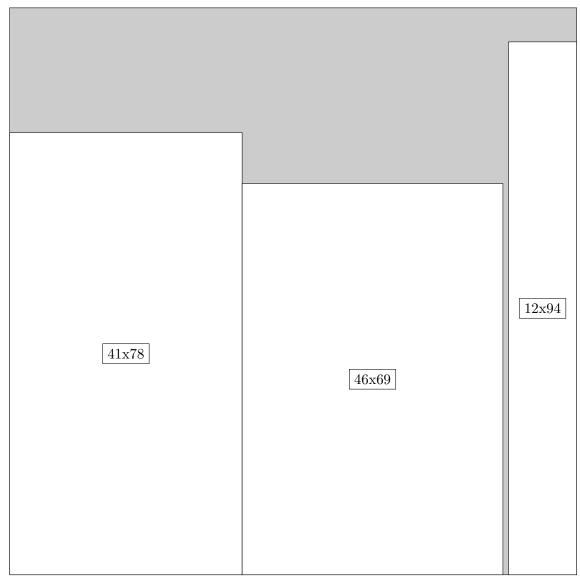
$$\le =44$$
 , h =76 , x =0 , y =0 , v =3344

$$\le =43$$
 , $h=68$, $x=56$, $y=0$, $v=2924$

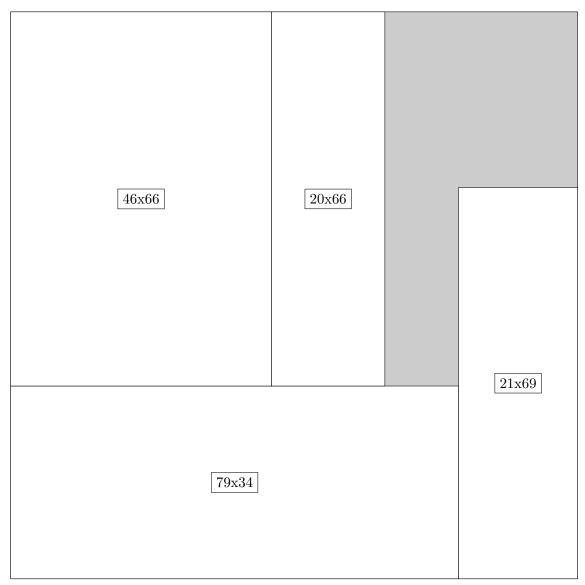
$$w=\!12$$
 , $h=\!75$, $x=\!44$, $y=\!0$, $v=\!900$



$$\begin{array}{l} w = \!\! 48 \ , \ h = \!\! 69 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 3312 \\ w = \!\! 47 \ , \ h = \!\! 69 \ , \ x = \!\! 48 \ , \ y = \!\! 0 \ , \ v = \!\! 3243 \\ w = \!\! 71 \ , \ h = \!\! 26 \ , \ x = \!\! 0 \ , \ y = \!\! 69 \ , \ v = \!\! 1846 \\ w = \!\! 5 \ , \ h = \!\! 81 \ , \ x = \!\! 95 \ , \ y = \!\! 0 \ , \ v = \!\! 405 \end{array}$$



 $\begin{array}{l} w = & 41 \ , \ h = & 78 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 3198 \\ w = & 46 \ , \ h = & 69 \ , \ x = & 41 \ , \ y = & 0 \ , \ v = & 3174 \\ w = & 12 \ , \ h = & 94 \ , \ x = & 88 \ , \ y = & 0 \ , \ v = & 1128 \end{array}$



$$\le =79$$
 , h =34 , x =0 , y =0 , v =2686

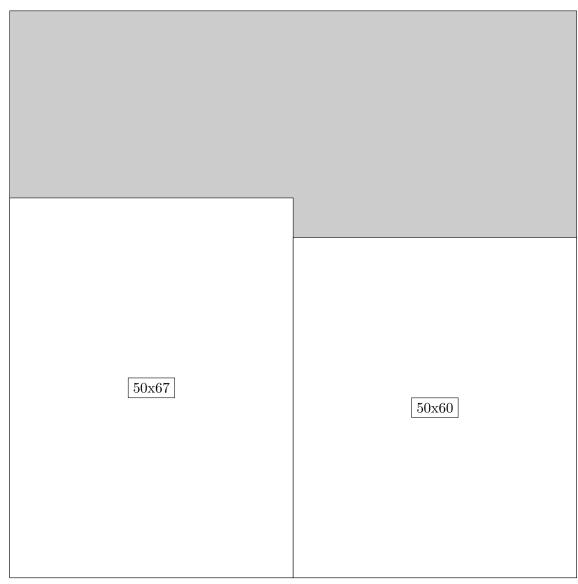
$$\le =46$$
 , $h=66$, $x=0$, $y=34$, $v=3036$

$$\le =21$$
 , h =69 , x =79 , y =0 , v =1449

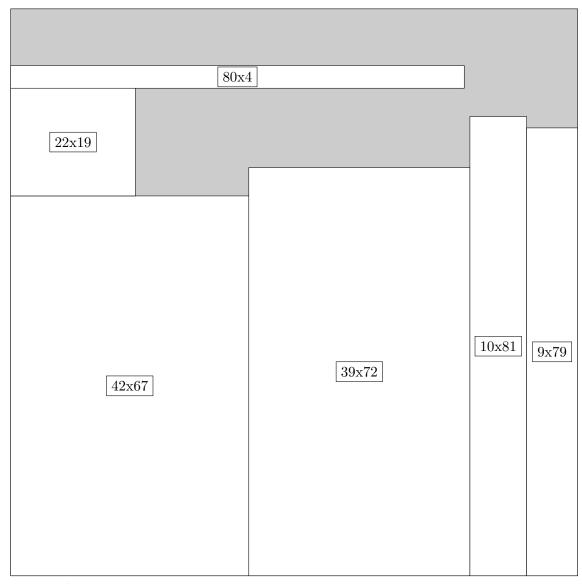
$$\le =20$$
 , $h=66$, $x=46$, $y=34$, $v=1320$

85x16			
$\boxed{44\text{x}69}$	25x69	23x69	8x98

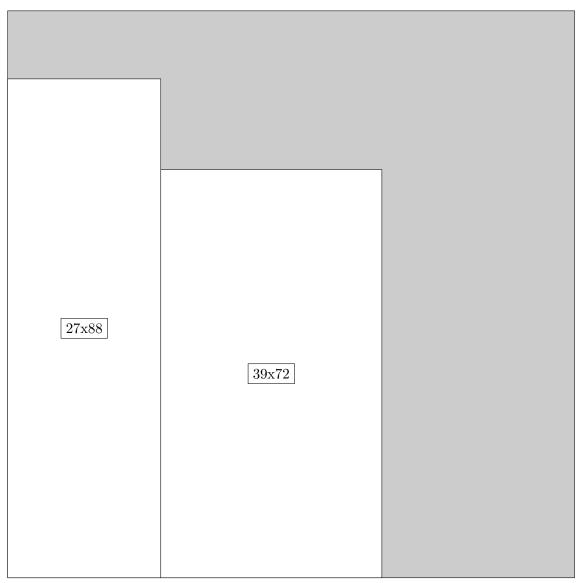
$$\begin{array}{l} w = 44 \; , \; h = 69 \; , \; x = 0 \; , \; y = 0 \; , \; v = 3036 \\ w = 25 \; , \; h = 69 \; , \; x = 44 \; , \; y = 0 \; , \; v = 1725 \\ w = 23 \; , \; h = 69 \; , \; x = 69 \; , \; y = 0 \; , \; v = 1587 \\ w = 85 \; , \; h = 16 \; , \; x = 0 \; , \; y = 69 \; , \; v = 1360 \\ w = 8 \; , \; h = 98 \; , \; x = 92 \; , \; y = 0 \; , \; v = 784 \end{array}$$



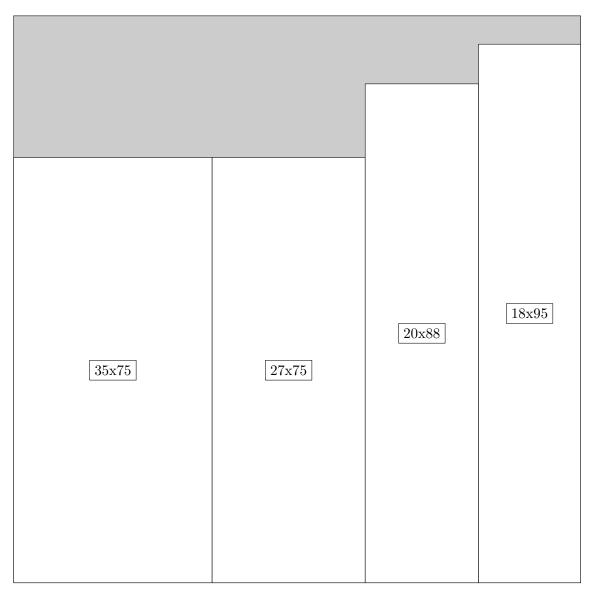
$$\begin{array}{c} w = \! 50 \; , \; h = \! 67 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 3350 \\ w = \! 50 \; , \; h = \! 60 \; , \; x = \! 50 \; , \; y = \! 0 \; , \; v = \! 3000 \\ \end{array}$$



$$\begin{array}{l} w = \!\! 42 \; , \; h = \!\! 67 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 2814 \\ w = \!\! 39 \; , \; h = \!\! 72 \; , \; x = \!\! 42 \; , \; y = \!\! 0 \; , \; v = \!\! 2808 \\ w = \!\! 10 \; , \; h = \!\! 81 \; , \; x = \!\! 81 \; , \; y = \!\! 0 \; , \; v = \!\! 810 \\ w = \!\! 9 \; , \; h = \!\! 79 \; , \; x = \!\! 91 \; , \; y = \!\! 0 \; , \; v = \!\! 711 \\ w = \!\! 22 \; , \; h = \!\! 19 \; , \; x = \!\! 0 \; , \; y = \!\! 67 \; , \; v = \!\! 418 \\ w = \!\! 80 \; , \; h = \!\! 4 \; , \; x = \!\! 0 \; , \; y = \!\! 86 \; , \; v = \!\! 320 \\ \end{array}$$



$$\begin{array}{l} w = & 39 \ , \ h = & 72 \ , \ x = & 27 \ , \ y = & 0 \ , \ v = & 2808 \\ w = & 27 \ , \ h = & 88 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 2376 \end{array}$$

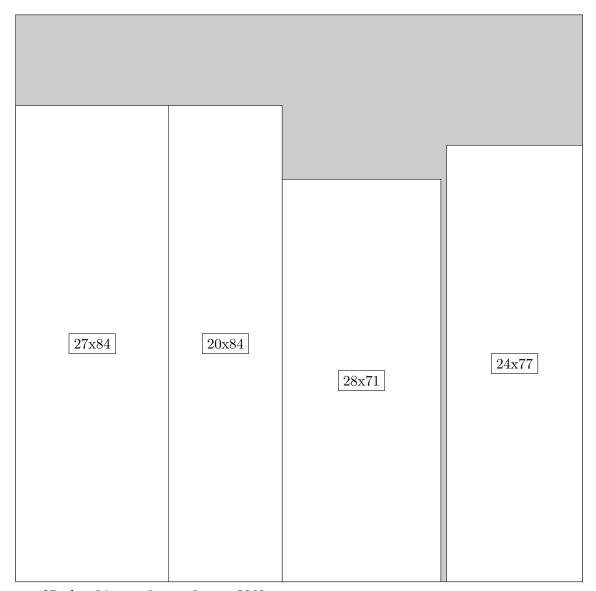


$$\le 35$$
 , ≤ 75 , ≥ 95 , \ge

$$\le =27$$
 , h =75 , x =35 , y =0 , v =2025

$$\le =20$$
 , h =88 , x =62 , y =0 , v =1760

$$\mathbf{w}$$
 =18 , h =95 , x =82 , y =0 , v =1710

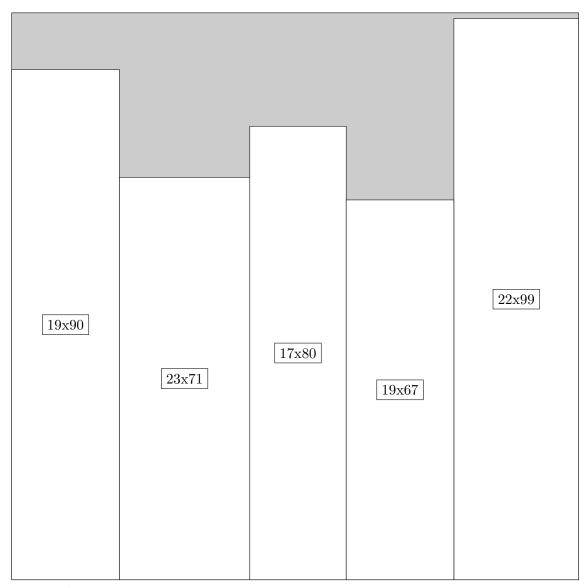


 $\le =27$, h =84 , x =0 , y =0 , v =2268

 $\le =28$, h =71 , x =47 , y =0 , v =1988

 $\le =24$, h =77 , x =76 , y =0 , v =1848

w =20 , h =84 , x =27 , y =0 , v =1680



$$\le =22$$
 , h =99 , x =78 , y =0 , v =2178

$$\mathbf{w}$$
 =19 , \mathbf{h} =90 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =1710

$$\le =23$$
 , h =71 , x =19 , y =0 , v =1633

$$w=\!17$$
 , $h=\!80$, $x=\!42$, $y=\!0$, $v=\!1360$

$$w = 19$$
, $h = 67$, $x = 59$, $y = 0$, $v = 1273$