$ClassName: {\bf Class\_07.2bp\text{-}31}$ 

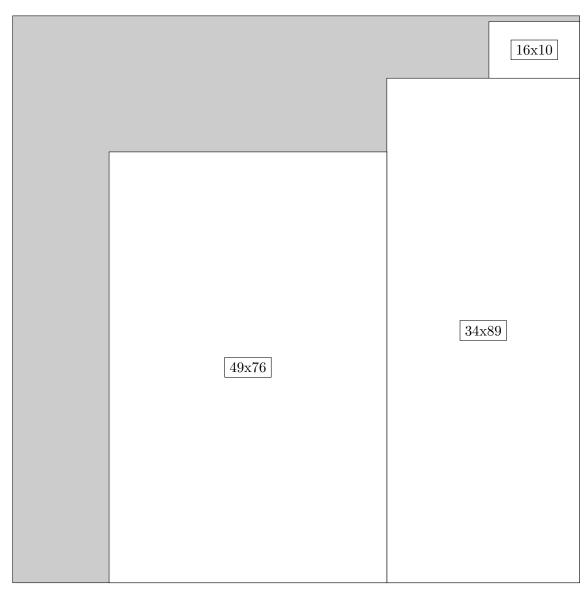
BinSize:  $\underline{100 \times 100}$ ReduceSize:  $\underline{100 \times 100}$ 

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> LB: <u>25</u>

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

isOpt: **true** 

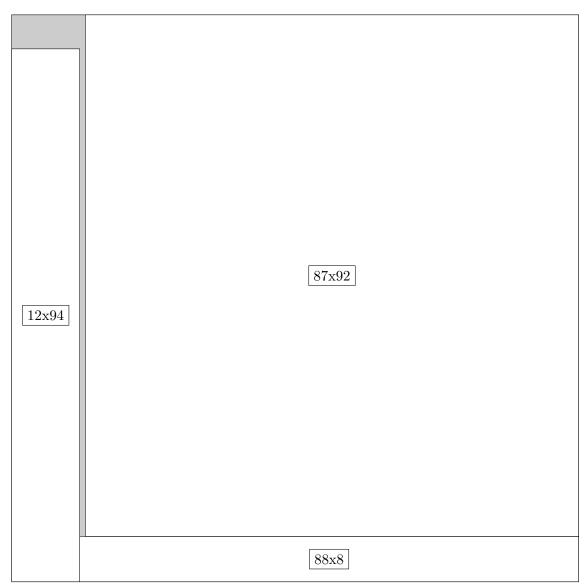
 $\begin{array}{ll} \text{TimeOnPrimal: } \underline{0.000 \text{ s}} \\ \text{TimeOnPricing: } \underline{0.000 \text{ s}} \\ \text{TimeOnRmp: } \underline{0.078 \text{ s}} \\ \text{TotalTime: } \underline{0.235 \text{ s}} \end{array}$ 



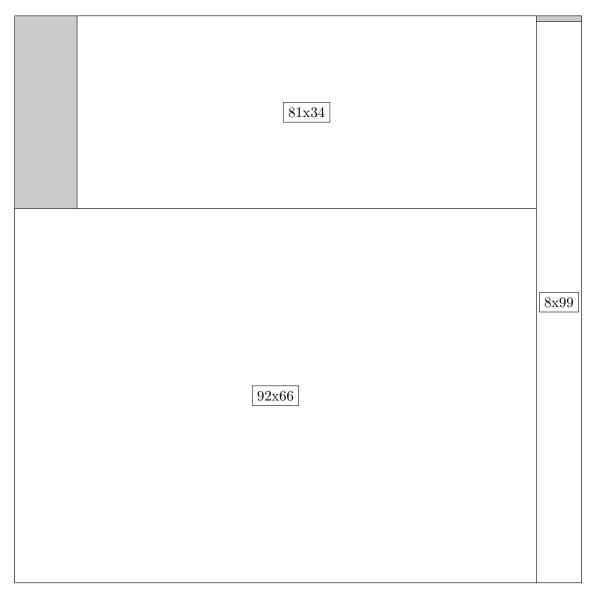
$$w = 34$$
,  $h = 89$ ,  $x = 66$ ,  $y = 0$ ,  $v = 3026$ 

$$\le =16$$
 ,  $h$  =10 ,  $x$  =84 ,  $y$  =89 ,  $v$  =160

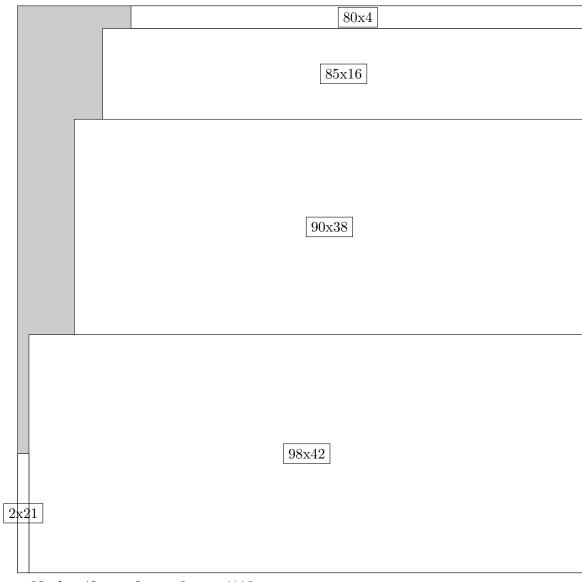
$$\le =49$$
 , h =76 , x =17 , y =0 , v =3724



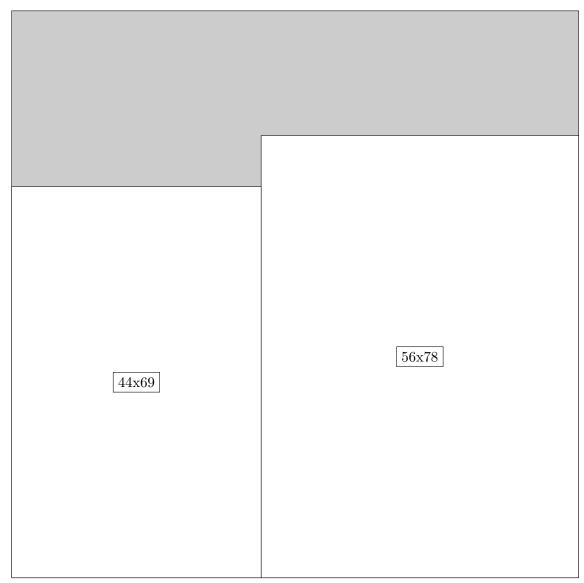
 $\begin{array}{l} w = \! 88 \; , \; h = \! 8 \; , \; x = \! 12 \; , \; y = \! 0 \; , \; v = \! 704 \\ w = \! 87 \; , \; h = \! 92 \; , \; x = \! 13 \; , \; y = \! 8 \; , \; v = \! 8004 \\ w = \! 12 \; , \; h = \! 94 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 1128 \end{array}$ 

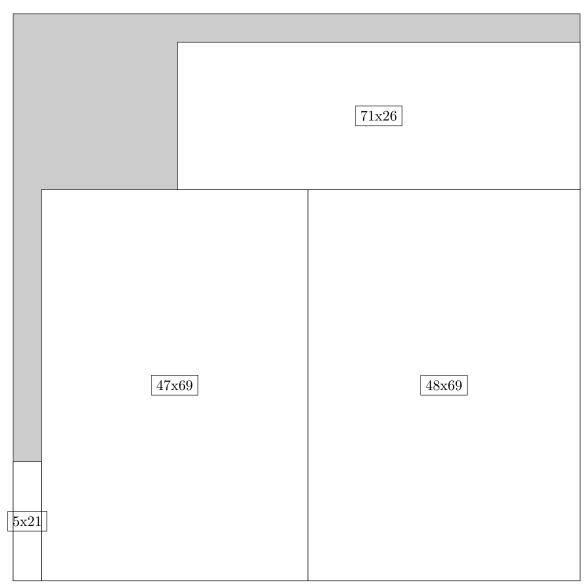


$$\begin{array}{l} w=8 \ , \ h=99 \ , \ x=92 \ , \ y=0 \ , \ v=792 \\ w=92 \ , \ h=66 \ , \ x=0 \ , \ y=0 \ , \ v=6072 \\ w=81 \ , \ h=34 \ , \ x=11 \ , \ y=66 \ , \ v=2754 \end{array}$$

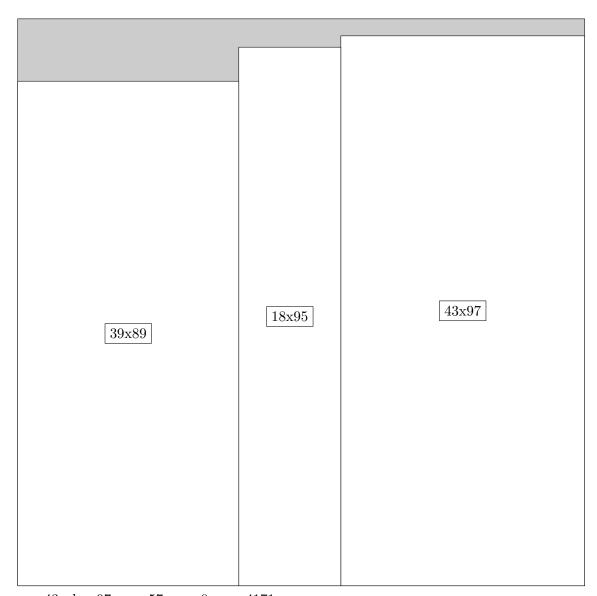


$$\begin{array}{l} w = 98 \; , \, h = \!\!\!\! 42 \; , \, x = \!\!\!\! 2 \; , \, y = \!\!\!\! 0 \; , \, v = \!\!\!\! 4116 \\ w = \!\!\!\! 2 \; , \, h = \!\!\!\! 21 \; , \, x = \!\!\!\! 0 \; , \, y = \!\!\!\! 0 \; , \, v = \!\!\!\! 42 \\ w = \!\!\!\! 90 \; , \, h = \!\!\!\! 38 \; , \, x = \!\!\!\! 10 \; , \, y = \!\!\!\! 42 \; , \, v = \!\!\!\! 3420 \\ w = \!\!\!\! 85 \; , \, h = \!\!\!\! 16 \; , \, x = \!\!\!\! 15 \; , \, y = \!\!\!\! 80 \; , \, v = \!\!\!\! 1360 \\ w = \!\!\!\! 80 \; , \, h = \!\!\!\! 4 \; , \, x = \!\!\!\! 20 \; , \, y = \!\!\!\! 96 \; , \, v = \!\!\!\! 320 \end{array}$$





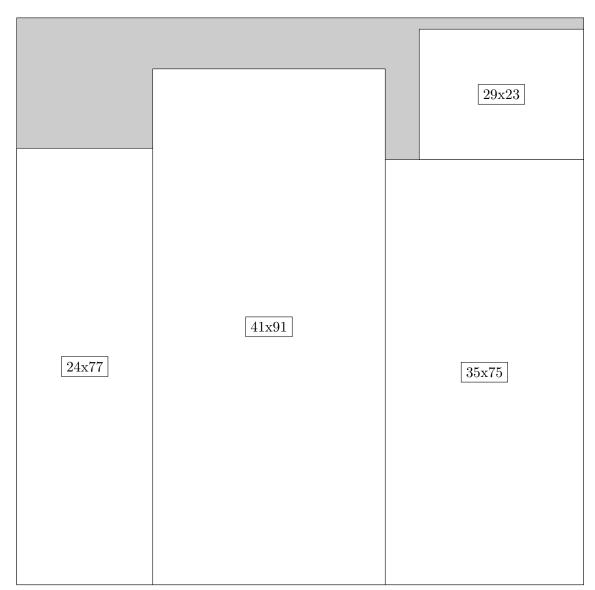
$$\begin{array}{l} w = \! 48 \ , \ h = \! 69 \ , \ x = \! 52 \ , \ y = \! 0 \ , \ v = \! 3312 \\ w = \! 47 \ , \ h = \! 69 \ , \ x = \! 5 \ , \ y = \! 0 \ , \ v = \! 3243 \\ w = \! 5 \ , \ h = \! 21 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 105 \\ w = \! 71 \ , \ h = \! 26 \ , \ x = \! 29 \ , \ y = \! 69 \ , \ v = \! 1846 \end{array}$$



 $\le =43$  , h=97 , x=57 , y=0 , v=4171

 $\le =18$  , h =95 , x =39 , y =0 , v =1710

 $\le =39$  , h =89 , x =0 , y =0 , v =3471

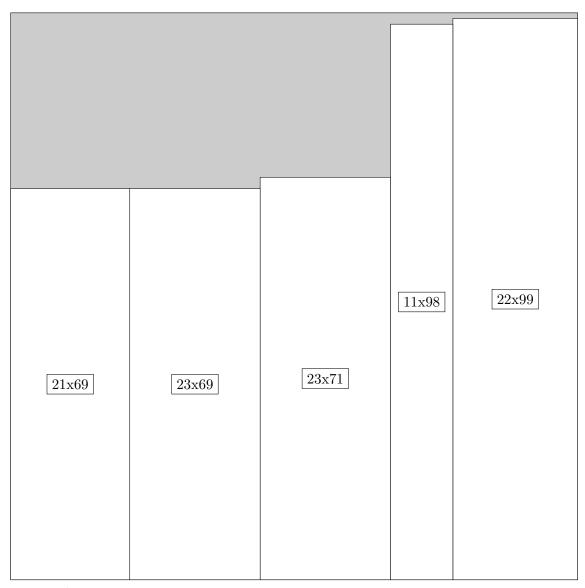


$$\le =35$$
 ,  $h$  =75 ,  $x$  =65 ,  $y$  =0 ,  $v$  =2625

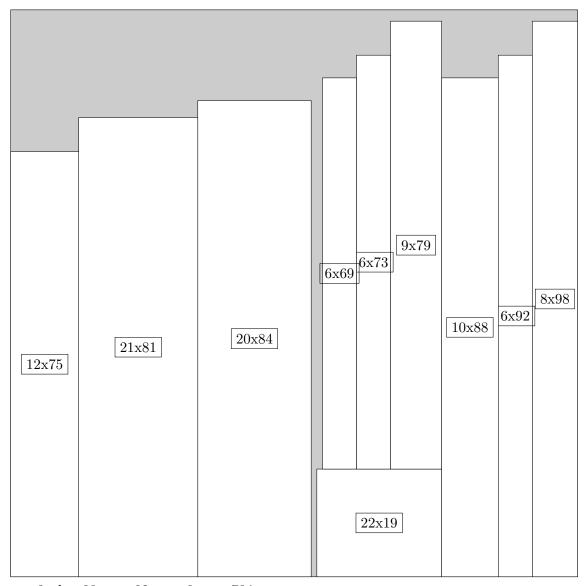
$$\le =29$$
 , h =23 , x =71 , y =75 , v =667

$$\le =41$$
 , h =91 , x =24 , y =0 , v =3731

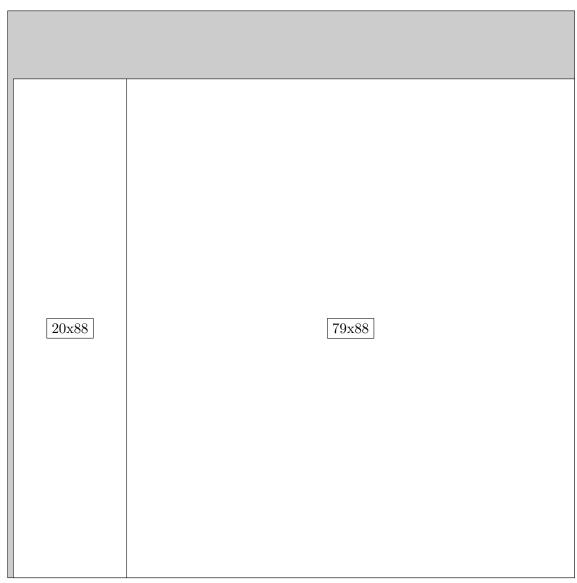
$$\mathbf{w}$$
 =24 , h =77 , x =0 , y =0 , v =1848



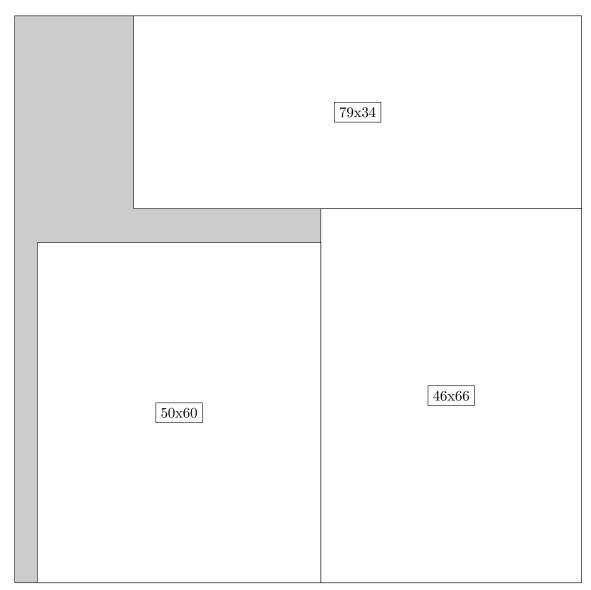
 $\begin{array}{l} w=22 \ , \ h=99 \ , \ x=78 \ , \ y=0 \ , \ v=2178 \\ w=11 \ , \ h=98 \ , \ x=67 \ , \ y=0 \ , \ v=1078 \\ w=23 \ , \ h=71 \ , \ x=44 \ , \ y=0 \ , \ v=1633 \\ w=23 \ , \ h=69 \ , \ x=21 \ , \ y=0 \ , \ v=1587 \\ w=21 \ , \ h=69 \ , \ x=0 \ , \ y=0 \ , \ v=1449 \end{array}$ 



```
\begin{array}{l} w=8 \;,\; h=98 \;,\; x=92 \;,\; y=0 \;,\; v=784 \\ w=6 \;,\; h=92 \;,\; x=86 \;,\; y=0 \;,\; v=552 \\ w=10 \;,\; h=88 \;,\; x=76 \;,\; y=0 \;,\; v=880 \\ w=22 \;,\; h=19 \;,\; x=54 \;,\; y=0 \;,\; v=418 \\ w=9 \;,\; h=79 \;,\; x=67 \;,\; y=19 \;,\; v=711 \\ w=6 \;,\; h=73 \;,\; x=61 \;,\; y=19 \;,\; v=438 \\ w=6 \;,\; h=69 \;,\; x=55 \;,\; y=19 \;,\; v=414 \\ w=20 \;,\; h=84 \;,\; x=33 \;,\; y=0 \;,\; v=1680 \\ w=21 \;,\; h=81 \;,\; x=12 \;,\; y=0 \;,\; v=1701 \\ w=12 \;,\; h=75 \;,\; x=0 \;,\; y=0 \;,\; v=900 \end{array}
```



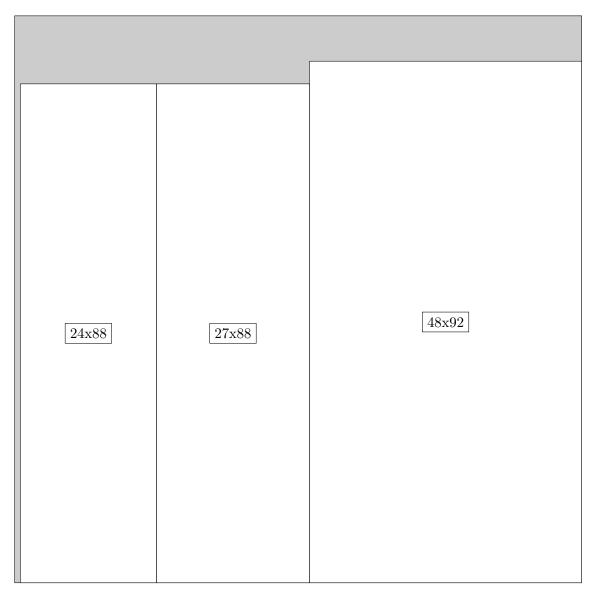
w =79 , h =88 , x =21 , y =0 , v =6952 w =20 , h =88 , x =1 , y =0 , v =1760



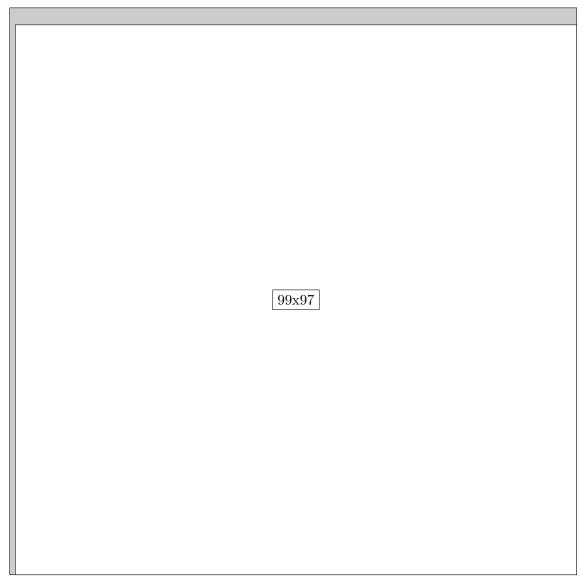
$$w = 46$$
,  $h = 66$ ,  $x = 54$ ,  $y = 0$ ,  $v = 3036$ 

$$\mathbf{w}$$
 =50 , h =60 , x =4 , y =0 , v =3000

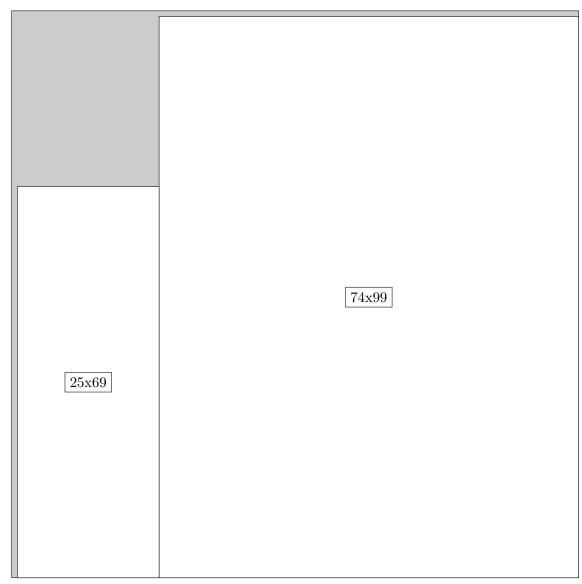
$$\le =79$$
 , h =34 , x =21 , y =66 , v =2686



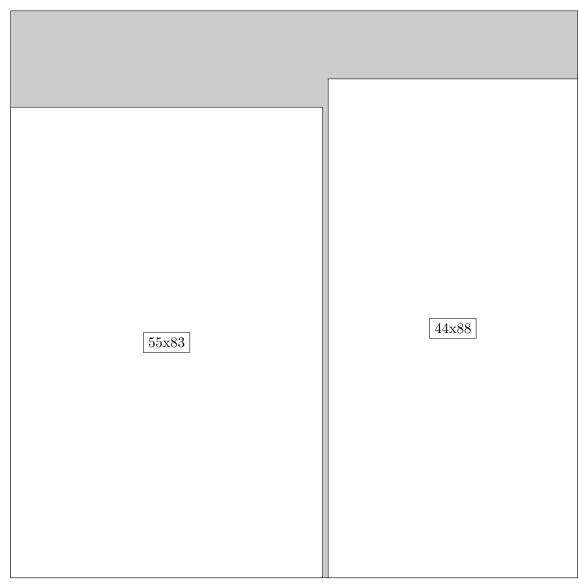
 $\begin{array}{l} w = \! 48 \ , \ h = \! 92 \ , \ x = \! 52 \ , \ y = \! 0 \ , \ v = \! 4416 \\ w = \! 27 \ , \ h = \! 88 \ , \ x = \! 25 \ , \ y = \! 0 \ , \ v = \! 2376 \\ w = \! 24 \ , \ h = \! 88 \ , \ x = \! 1 \ , \ y = \! 0 \ , \ v = \! 2112 \end{array}$ 



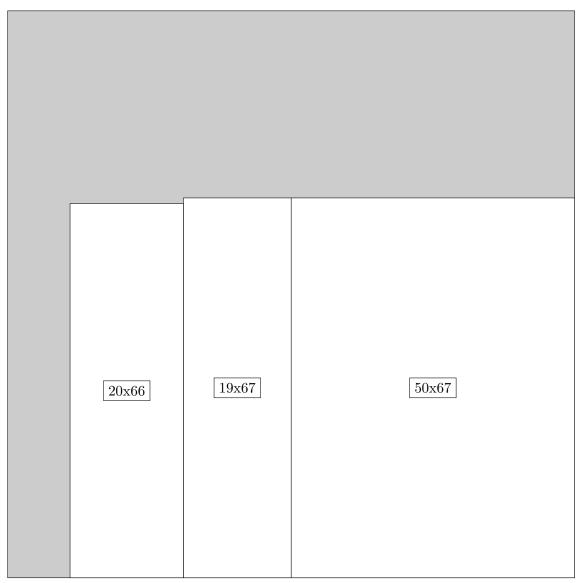
 $\le =99$  , h =97 , x =1 , y =0 , v = 9603



$$\begin{array}{l} w = \! 74 \ , \ h = \! 99 \ , \ x = \! 26 \ , \ y = \! 0 \ , \ v = \! 7326 \\ w = \! 25 \ , \ h = \! 69 \ , \ x = \! 1 \ , \ y = \! 0 \ , \ v = \! 1725 \end{array}$$



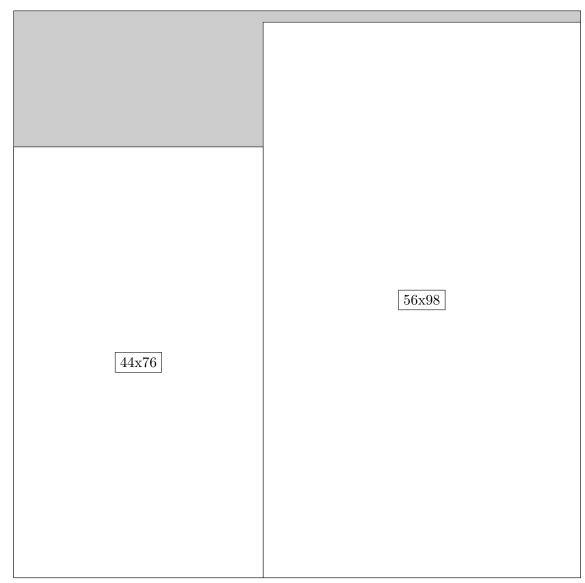
$$\begin{array}{l} w = \!\! 44 \ , \ h = \!\! 88 \ , \ x = \!\! 56 \ , \ y = \!\! 0 \ , \ v = \!\! 3872 \\ w = \!\! 55 \ , \ h = \!\! 83 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 4565 \end{array}$$



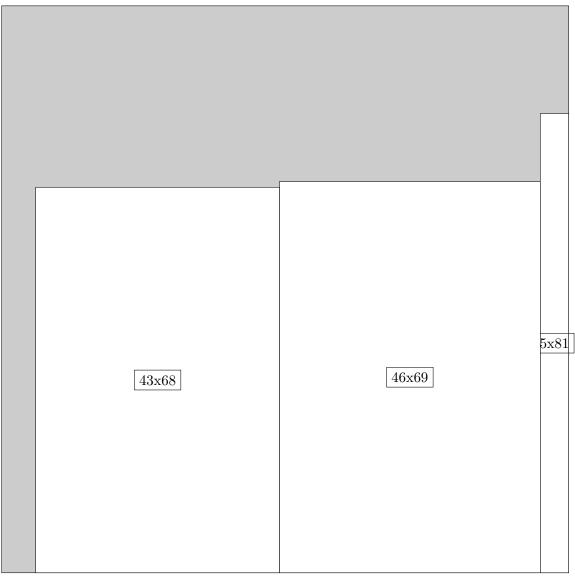
 $\le =50$  , h=67 , x=50 , y=0 , v=3350

 $\le =19$  , h =67 , x =31 , y =0 , v =1273

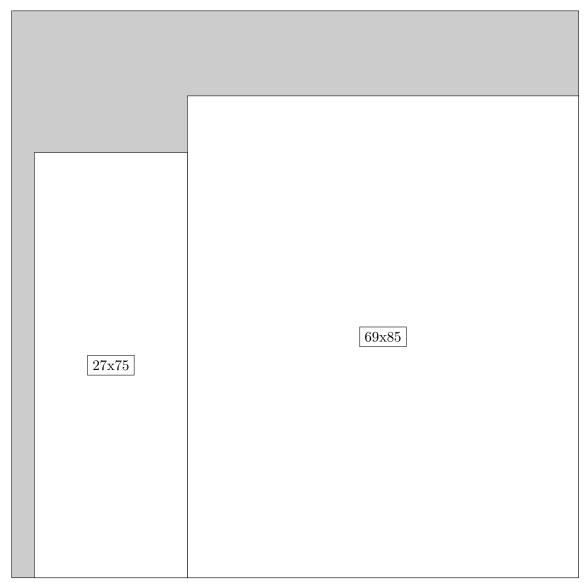
 $\le =20$  , h =66 , x =11 , y =0 , v =1320



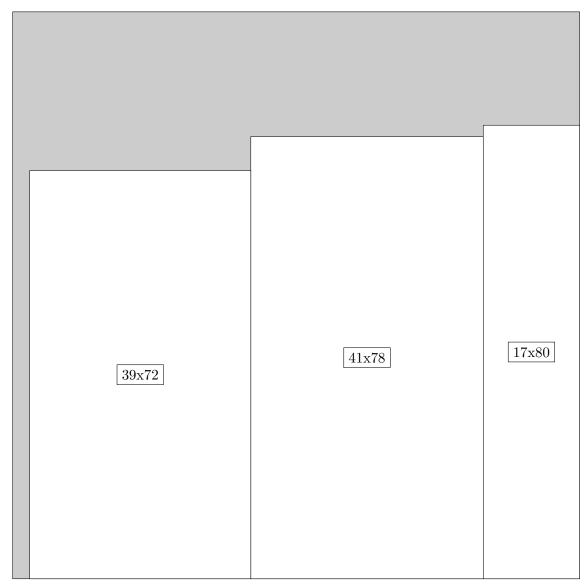
$$\begin{array}{l} w = \!\! 56 \ , \ h = \!\! 98 \ , \ x = \!\! 44 \ , \ y = \!\! 0 \ , \ v = \!\! 5488 \\ w = \!\! 44 \ , \ h = \!\! 76 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 3344 \end{array}$$



 $\begin{array}{l} w=5\ ,\ h=\!81\ ,\ x=\!95\ ,\ y=\!0\ ,\ v=\!405\\ w=\!46\ ,\ h=\!69\ ,\ x=\!49\ ,\ y=\!0\ ,\ v=\!3174\\ w=\!43\ ,\ h=\!68\ ,\ x=\!6\ ,\ y=\!0\ ,\ v=\!2924 \end{array}$ 



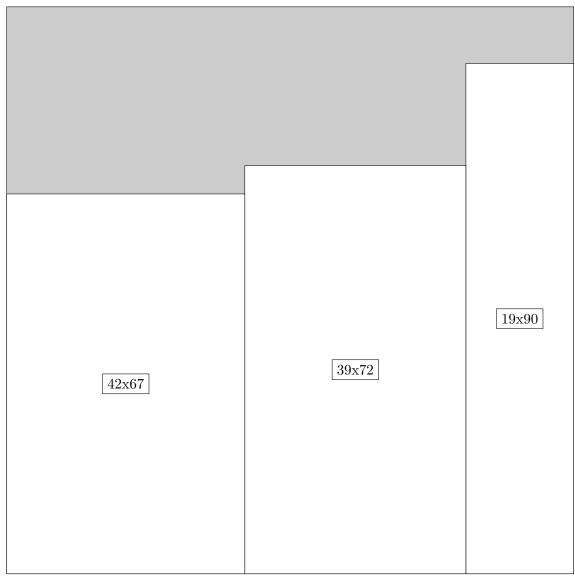
$$\begin{array}{l} w = \!69 \ , \ h = \!85 \ , \ x = \!31 \ , \ y = \!0 \ , \ v = \!5865 \\ w = \!27 \ , \ h = \!75 \ , \ x = \!4 \ , \ y = \!0 \ , \ v = \!2025 \end{array}$$



$$w = 17$$
,  $h = 80$ ,  $x = 83$ ,  $y = 0$ ,  $v = 1360$ 

$$\le =41$$
 ,  $h=78$  ,  $x=42$  ,  $y=0$  ,  $v=3198$ 

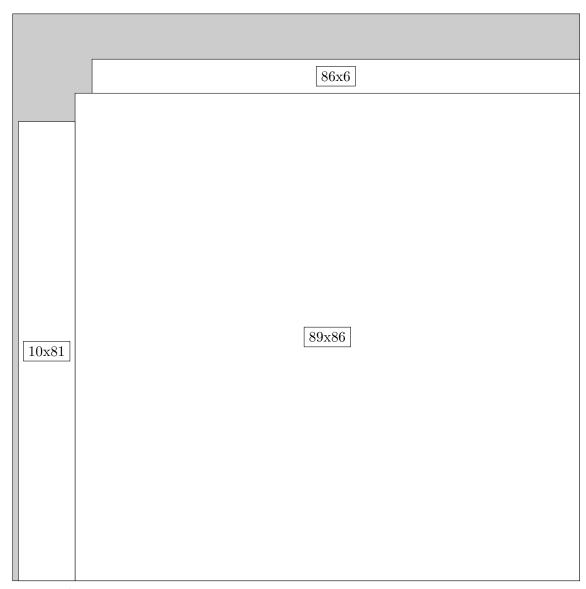
$$\le =39$$
 , h =72 , x =3 , y =0 , v =2808



$$w = 19$$
,  $h = 90$ ,  $x = 81$ ,  $y = 0$ ,  $v = 1710$ 

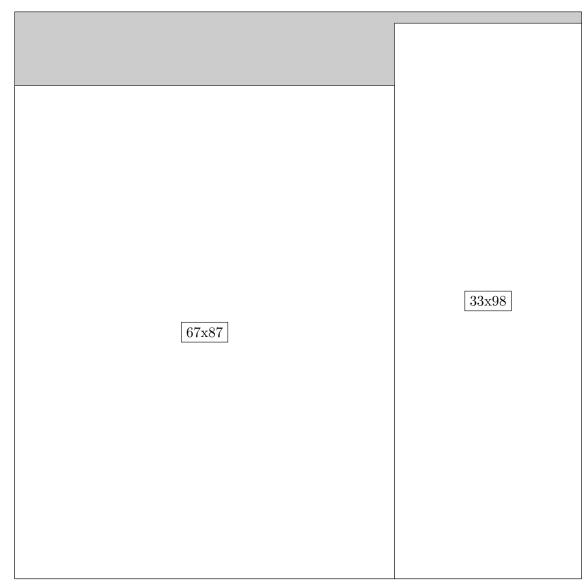
$$\le =39$$
 , h =72 , x =42 , y =0 , v =2808

$$\le =42$$
 ,  $h=67$  ,  $x=0$  ,  $y=0$  ,  $v=2814$ 

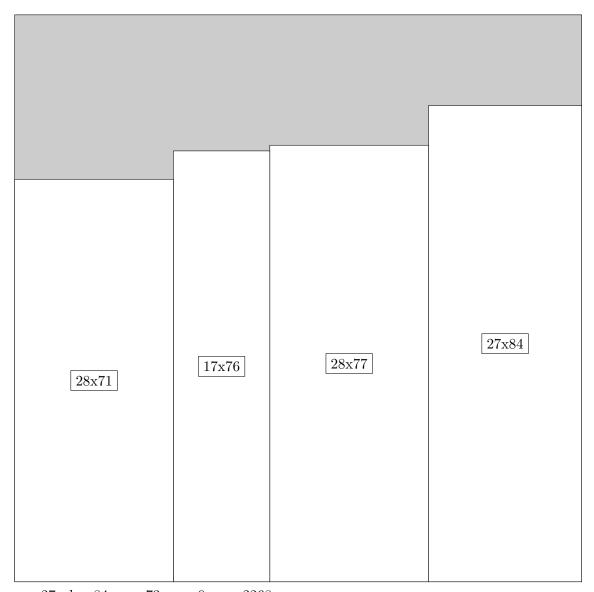


$$\begin{array}{l} w = \! 89 \ , \ h = \! 86 \ , \ x = \! 11 \ , \ y = \! 0 \ , \ v = \! 7654 \\ w = \! 86 \ , \ h = \! 6 \ , \ x = \! 14 \ , \ y = \! 86 \ , \ v = \! 516 \end{array}$$

$$w = 10$$
,  $h = 81$ ,  $x = 1$ ,  $y = 0$ ,  $v = 810$ 



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



$$\begin{array}{l} w = \! 27 \ , \ h = \! 84 \ , \ x = \! 73 \ , \ y = \! 0 \ , \ v = \! 2268 \\ w = \! 28 \ , \ h = \! 77 \ , \ x = \! 45 \ , \ y = \! 0 \ , \ v = \! 2156 \\ w = \! 17 \ , \ h = \! 76 \ , \ x = \! 28 \ , \ y = \! 0 \ , \ v = \! 1292 \end{array}$$

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