${\bf ClassName:}~{\bf Class\_05.2bp\text{-}20}$ 

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

TypeNum: <u>60</u> Num: <u>60</u> OutS: <u>200000</u> InS: <u>170660</u> Rate: <u>0.853</u> UB: <u>20</u> LB0: <u>20</u>

LBWithCut:  $\underline{20}$ NodeCut:  $\underline{0}$ 

LB: **20** 

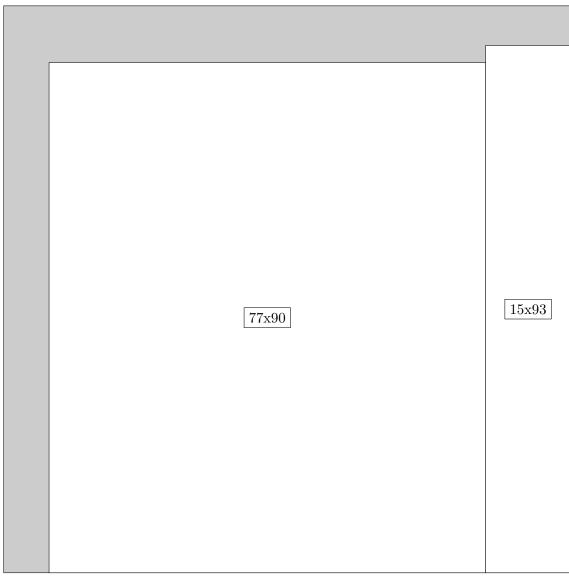
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

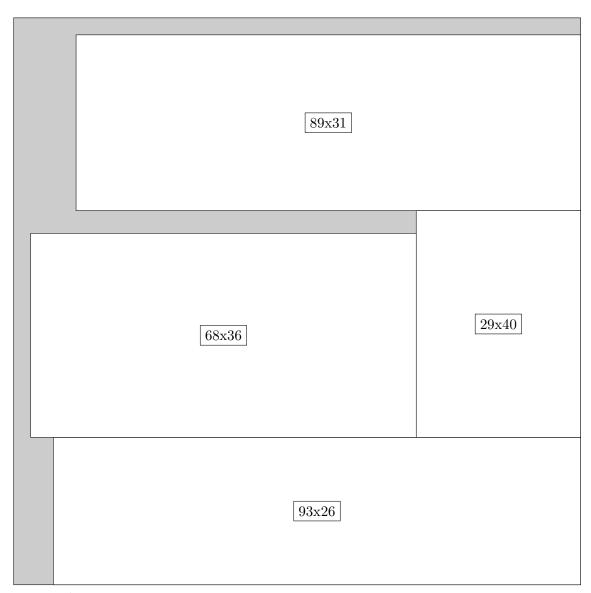
GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{20}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

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

TimeOnInitSolution:  $\underline{600.000 \text{ s}}$ 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.062 sTotalTime: 600.343 s



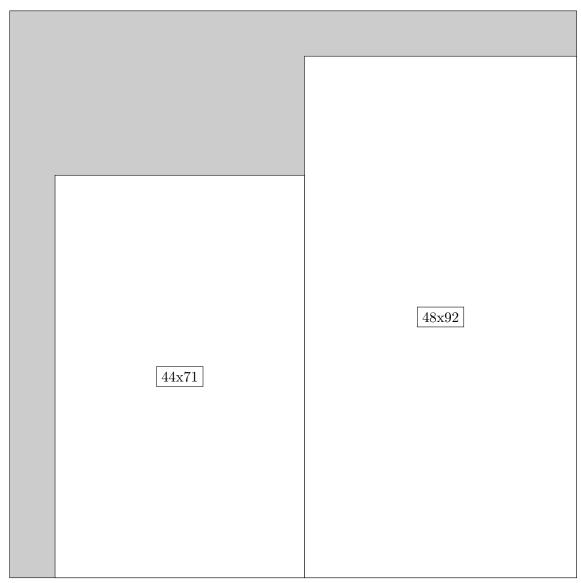


$$\le =93$$
 , h =26 , x =7 , y =0 , v =2418

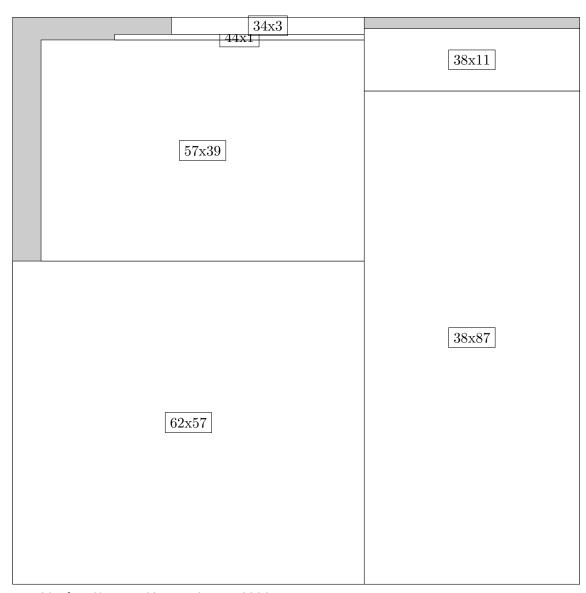
$$\le =29$$
 , h =40 , x =71 , y =26 , v =1160

$$\le =68$$
 , h =36 , x =3 , y =26 , v =2448

$$\le =89$$
 , h =31 , x =11 , y =66 , v =2759



$$w=48$$
 ,  $h=92$  ,  $x=52$  ,  $y=0$  ,  $v=4416$   $w=44$  ,  $h=71$  ,  $x=8$  ,  $y=0$  ,  $v=3124$ 



$$\le =38$$
 ,  $\ge =87$  ,  $\ge =62$  , y =0 , v =3306

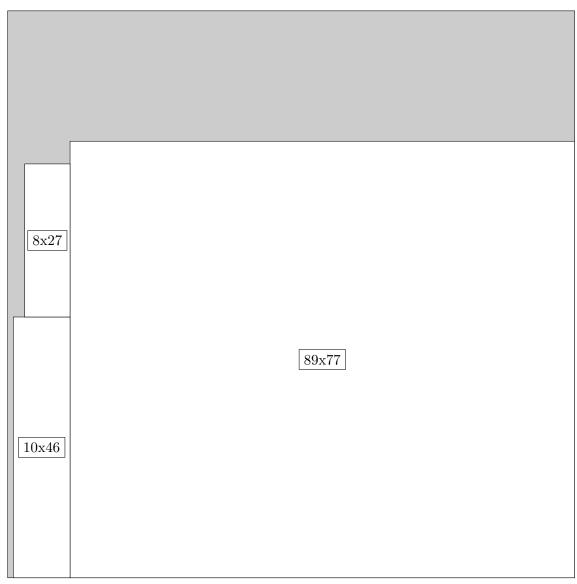
$$\le =38$$
 ,  $h$  =11 ,  $x$  =62 ,  $y$  =87 ,  $v$  =418

$$\le =62$$
 ,  $h=\!57$  ,  $x=\!0$  ,  $y=\!0$  ,  $v=\!3534$ 

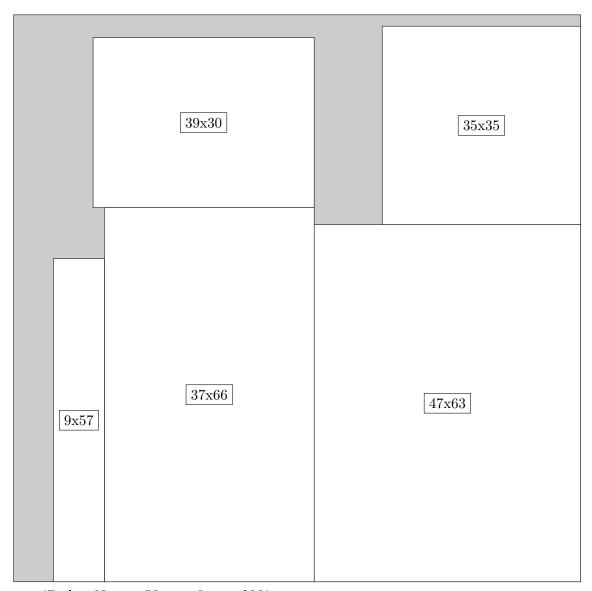
$$w$$
 =57 , h =39 , x =5 , y =57 , v =2223

$$\mathbf{w}$$
 =44 , h =1 , x =18 , y =96 , v =44

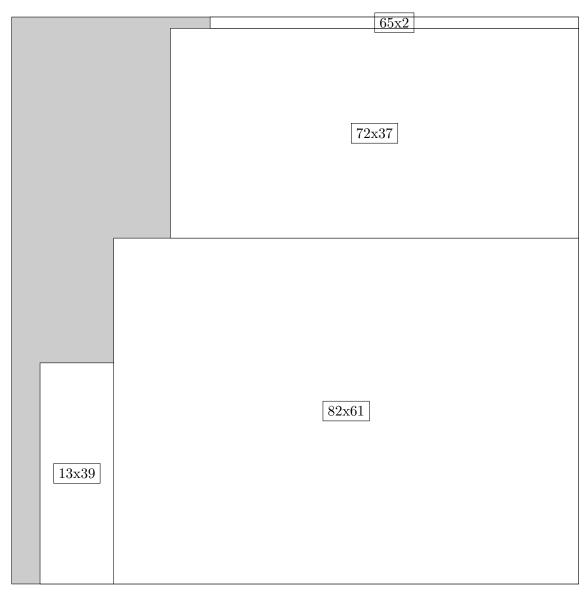
$$\le =34$$
 ,  $h=3$  ,  $x=28$  ,  $y=97$  ,  $v=102$ 



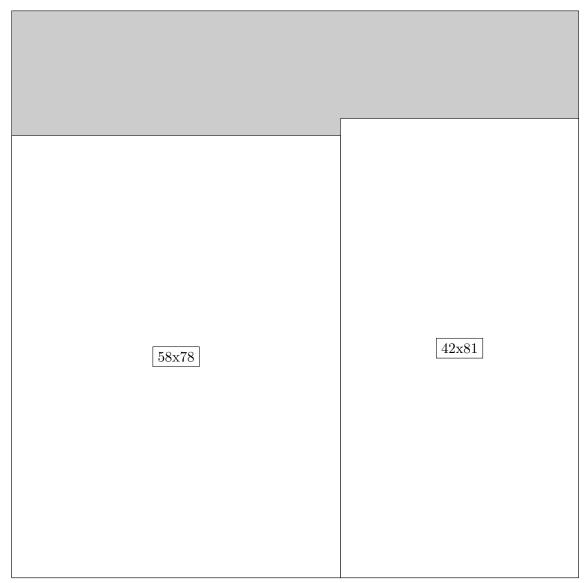
$$\begin{array}{l} w = \! 89 \ , \ h = \! 77 \ , \ x = \! 11 \ , \ y = \! 0 \ , \ v = \! 6853 \\ w = \! 10 \ , \ h = \! 46 \ , \ x = \! 1 \ , \ y = \! 0 \ , \ v = \! 460 \\ w = \! 8 \ , \ h = \! 27 \ , \ x = \! 3 \ , \ y = \! 46 \ , \ v = \! 216 \end{array}$$



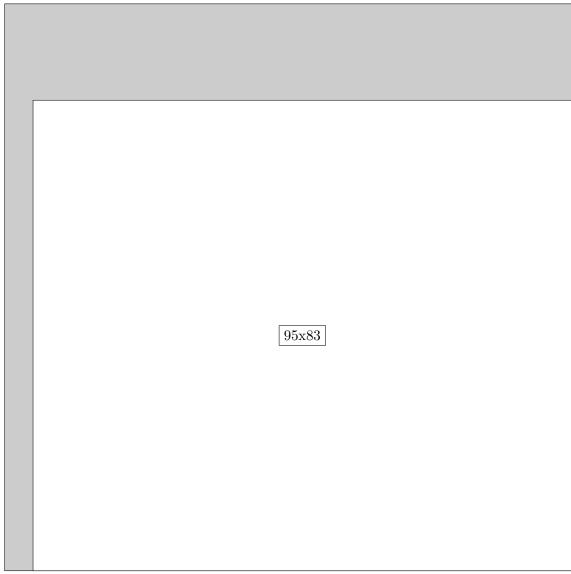
 $\begin{array}{l} w = \! 47 \;, \; h = \! 63 \;, \; x = \! 53 \;, \; y = \! 0 \;, \; v = \! 2961 \\ w = \! 35 \;, \; h = \! 35 \;, \; x = \! 65 \;, \; y = \! 63 \;, \; v = \! 1225 \\ w = \! 37 \;, \; h = \! 66 \;, \; x = \! 16 \;, \; y = \! 0 \;, \; v = \! 2442 \\ w = \! 9 \;, \; h = \! 57 \;, \; x = \! 7 \;, \; y = \! 0 \;, \; v = \! 513 \\ w = \! 39 \;, \; h = \! 30 \;, \; x = \! 14 \;, \; y = \! 66 \;, \; v = \! 1170 \end{array}$ 



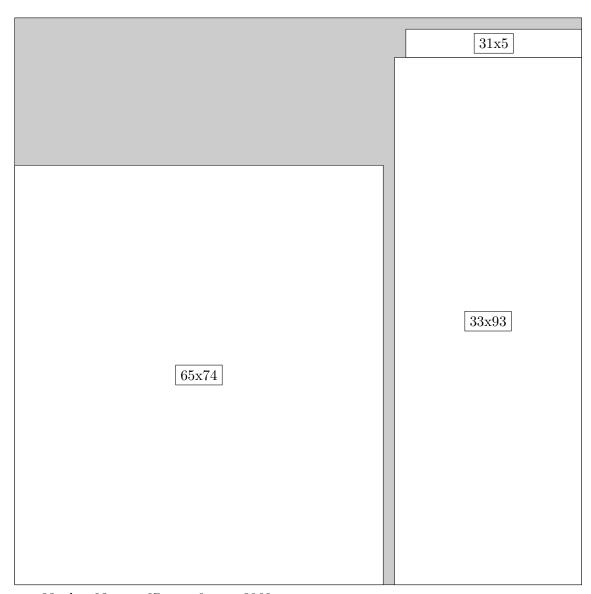
$$\begin{array}{l} w = \! 82 \; , \; h = \! 61 \; , \; x = \! 18 \; , \; y = \! 0 \; , \; v = \! 5002 \\ w = \! 72 \; , \; h = \! 37 \; , \; x = \! 28 \; , \; y = \! 61 \; , \; v = \! 2664 \\ w = \! 65 \; , \; h = \! 2 \; , \; x = \! 35 \; , \; y = \! 98 \; , \; v = \! 130 \\ w = \! 13 \; , \; h = \! 39 \; , \; x = \! 5 \; , \; y = \! 0 \; , \; v = \! 507 \end{array}$$



$$w=42$$
 ,  $h=81$  ,  $x=58$  ,  $y=0$  ,  $v=3402$   $w=58$  ,  $h=78$  ,  $x=0$  ,  $y=0$  ,  $v=4524$ 



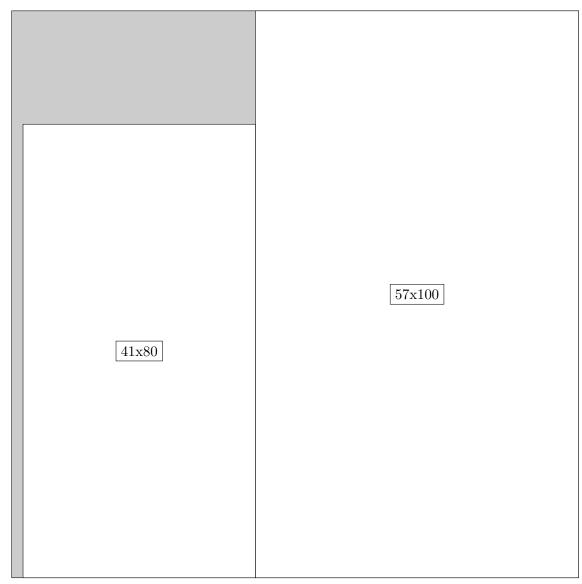
 $\le =95$  , h =83 , x =5 , y =0 , v =7885



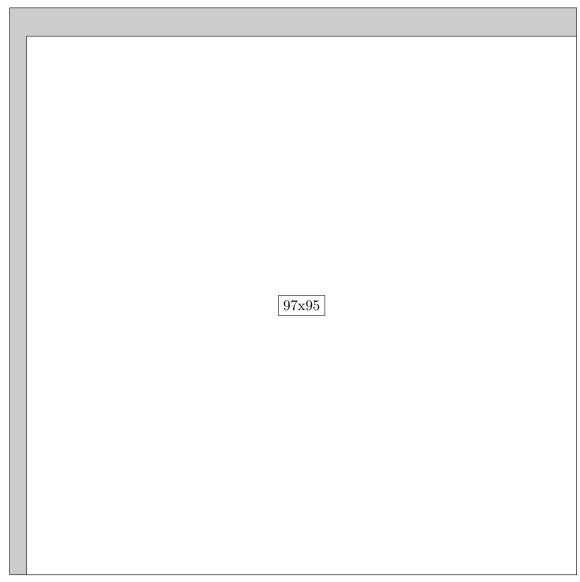
$$\le =33$$
 , h =93 , x =67 , y =0 , v =3069

$$\le =31$$
 , h =5 , x =69 , y =93 , v =155

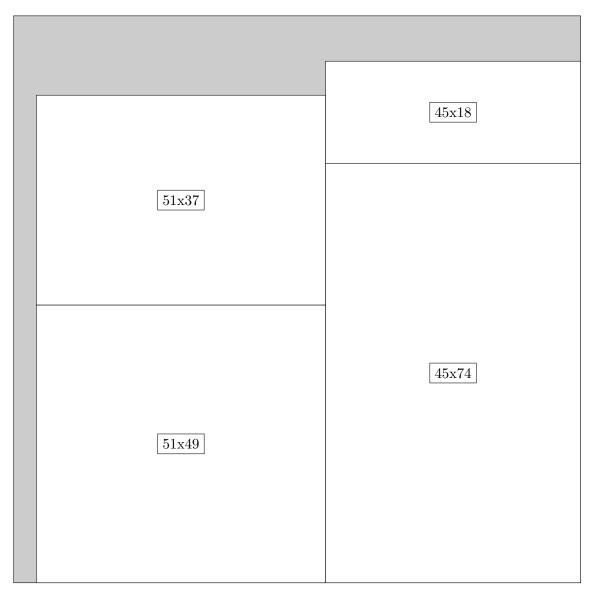
$$\mathbf{w}$$
 =65 , h =74 , x =0 , y =0 , v =4810



$$\begin{array}{l} w = \! 57 \; , \; h = \! 100 \; , \; x = \! 43 \; , \; y = \! 0 \; , \; v = \! 5700 \\ w = \! 41 \; , \; h = \! 80 \; , \; x = \! 2 \; , \; y = \! 0 \; , \; v = \! 3280 \\ \end{array}$$



 $\le =97$  , h =95 , x =3 , y =0 , v =9215

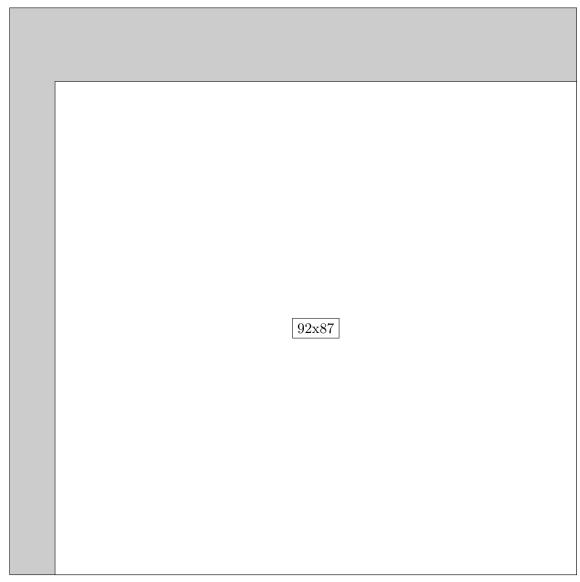


$$w = 45$$
,  $h = 74$ ,  $x = 55$ ,  $y = 0$ ,  $v = 3330$ 

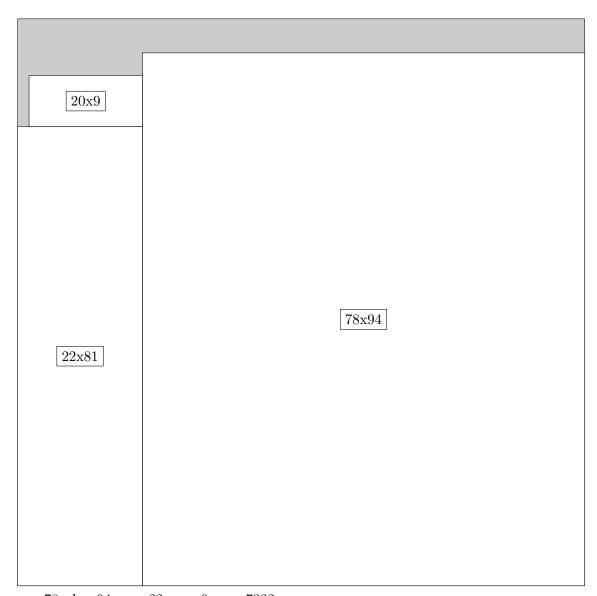
$$w$$
 =45 ,  $h$  =18 ,  $x$  =55 ,  $y$  =74 ,  $v$  =810

$$\le =51$$
 , h =49 , x =4 , y =0 , v =2499

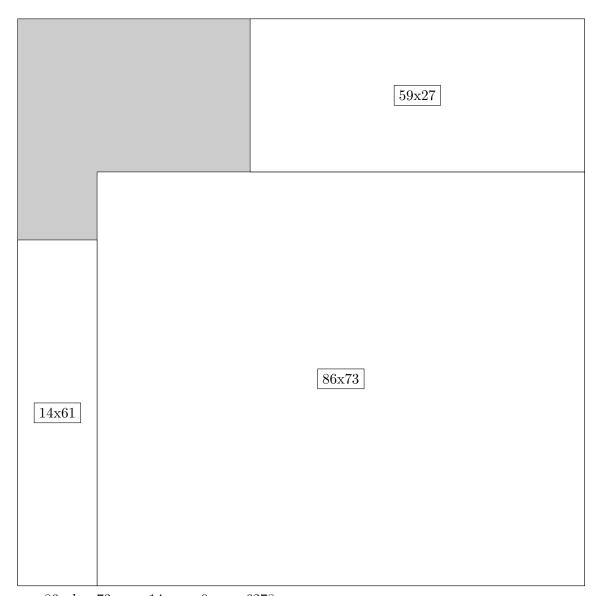
$$\le =51$$
 , h =37 , x =4 , y =49 , v =1887



 $\le =92$  , h =87 , x =8 , y =0 , v =8004

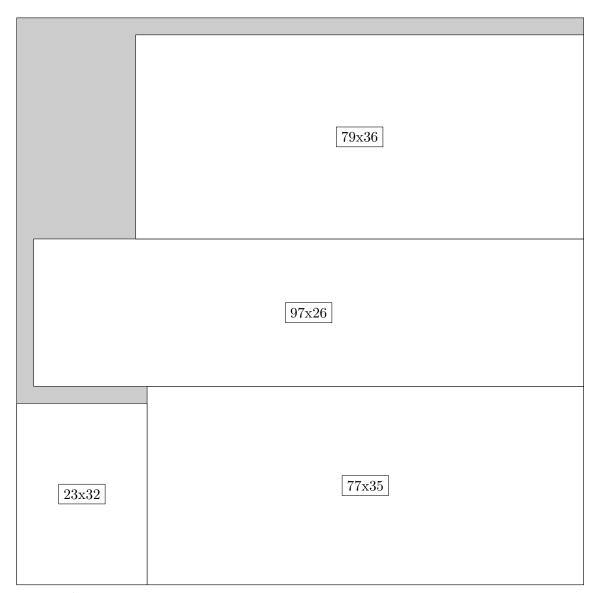


$$\begin{array}{l} w = 78 \ , \ h = 94 \ , \ x = 22 \ , \ y = 0 \ , \ v = 7332 \\ w = 22 \ , \ h = 81 \ , \ x = 0 \ , \ y = 0 \ , \ v = 1782 \\ w = 20 \ , \ h = 9 \ , \ x = 2 \ , \ y = 81 \ , \ v = 180 \end{array}$$



$$\begin{array}{l} w = \!\!86 \ , \ h = \!\!73 \ , \ x = \!\!14 \ , \ y = \!\!0 \ , \ v = \!\!6278 \\ w = \!\!14 \ , \ h = \!\!61 \ , \ x = \!\!0 \ , \ y = \!\!0 \ , \ v = \!\!854 \end{array}$$

$$\le =59$$
 , h =27 , x =41 , y =73 , v =1593

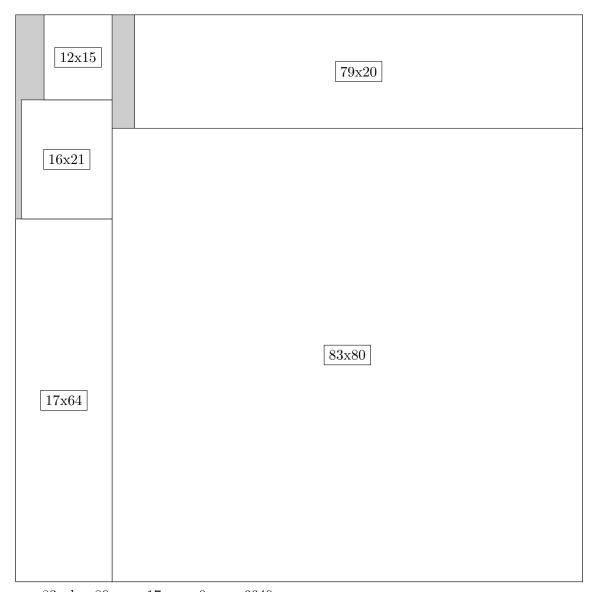


$$\le =77$$
 , h =35 , x =23 , y =0 , v =2695

$$\le =23$$
 , h =32 , x =0 , y =0 , v =736

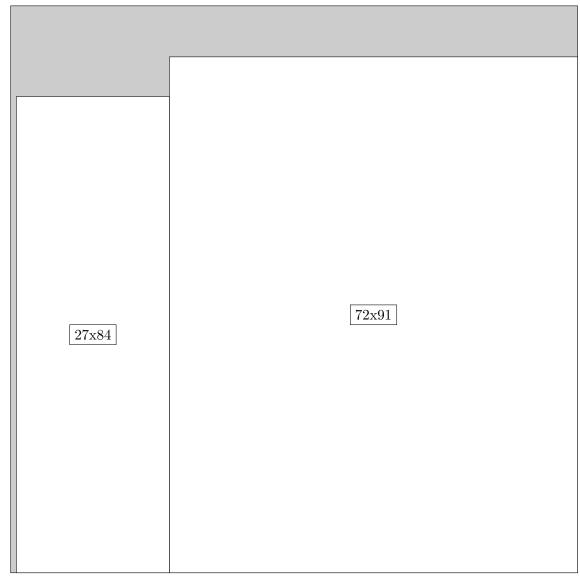
$$\le =97$$
 , h =26 , x =3 , y =35 , v =2522

$$w$$
 =79 , h =36 , x =21 , y =61 , v =2844

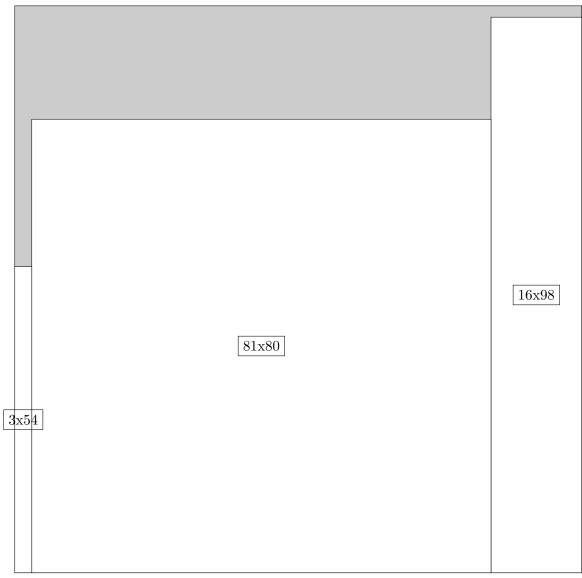


$$\begin{array}{l} w = \! 83 \ , \ h = \! 80 \ , \ x = \! 17 \ , \ y = \! 0 \ , \ v = \! 6640 \\ w = \! 79 \ , \ h = \! 20 \ , \ x = \! 21 \ , \ y = \! 80 \ , \ v = \! 1580 \\ w = \! 17 \ , \ h = \! 64 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 1088 \end{array}$$

$$w = 16$$
,  $h = 21$ ,  $x = 1$ ,  $y = 64$ ,  $v = 336$ 



$$\begin{array}{l} w = \!\!\! 72 \ , \ h = \!\!\! 91 \ , \ x = \!\!\! 28 \ , \ y = \!\!\! 0 \ , \ v = \!\!\! 6552 \\ w = \!\!\! 27 \ , \ h = \!\!\! 84 \ , \ x = \!\!\! 1 \ , \ y = \!\!\! 0 \ , \ v = \!\!\! 2268 \end{array}$$



 $\begin{array}{l} w = \! 16 \ , \ h = \! 98 \ , \ x = \! 84 \ , \ y = \! 0 \ , \ v = \! 1568 \\ w = \! 81 \ , \ h = \! 80 \ , \ x = \! 3 \ , \ y = \! 0 \ , \ v = \! 6480 \\ w = \! 3 \ , \ h = \! 54 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 162 \end{array}$