${\bf ClassName:}~{\bf Class_05.2bp\text{-}33}$

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

TypeNum: <u>80</u> Num: <u>80</u> OutS: <u>250000</u> InS: <u>204488</u> Rate: <u>0.818</u> UB: <u>25</u> LB0: <u>25</u>

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

LB: **25**

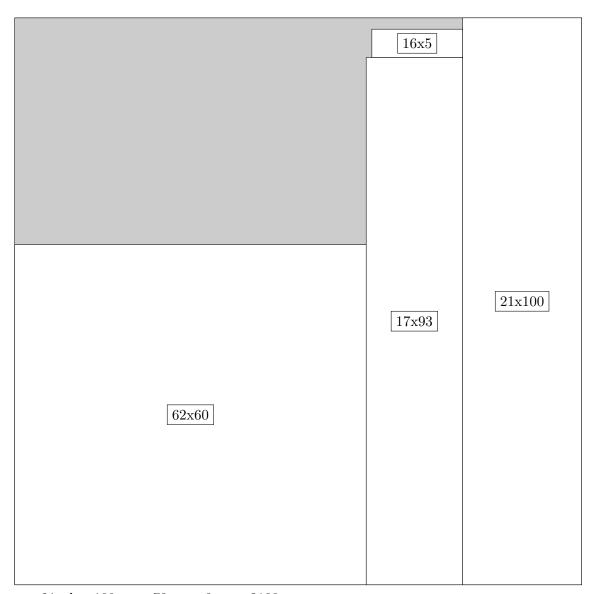
ExtendedNodeCnt: $\underline{\mathbf{1}}$

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: **true**

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.375 s

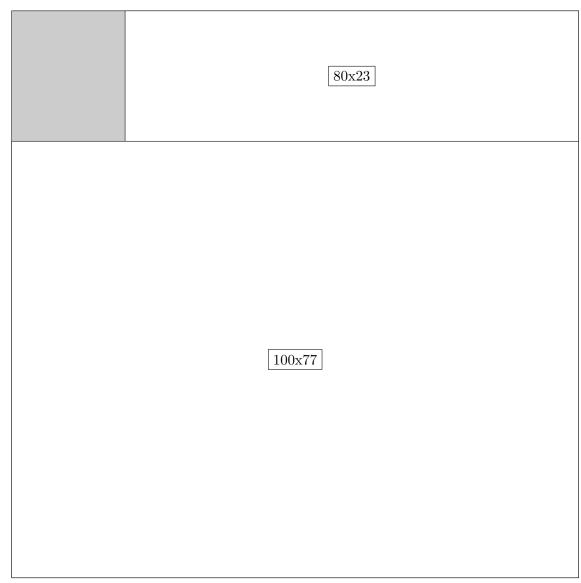


$$\le =21$$
 , h =100 , x =79 , y =0 , v =2100

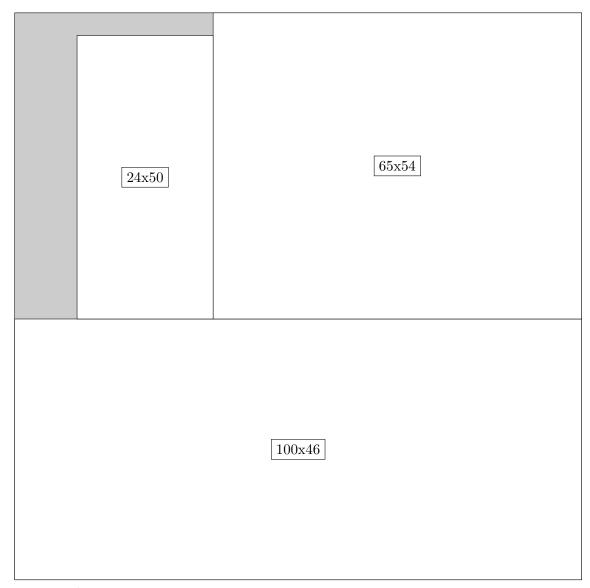
$$\le =17$$
 , h =93 , x =62 , y =0 , v =1581

$$\le =16$$
 , h =5 , x =63 , y =93 , v =80

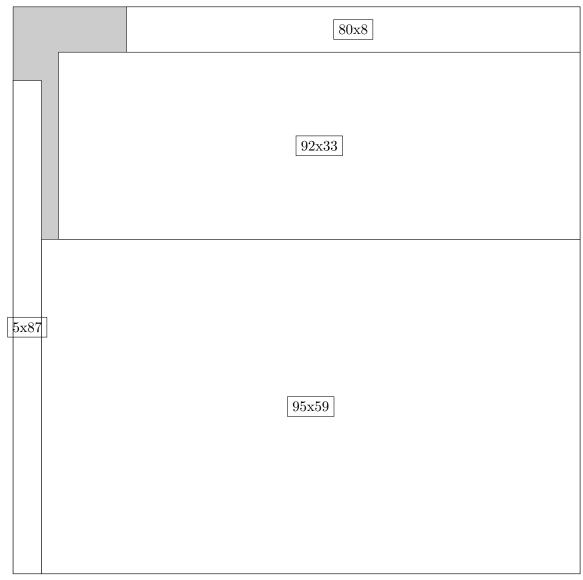
$$\mathbf{w}$$
 =62 , h =60 , x =0 , y =0 , v =3720



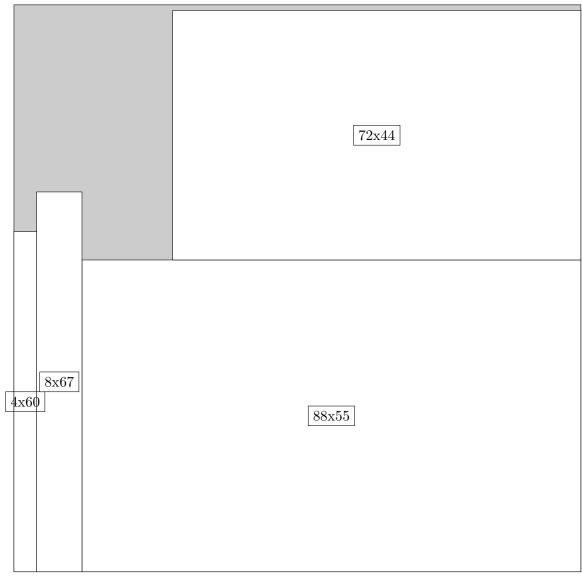
$$\begin{array}{c} w = 100 \; , \; h = 77 \; , \; x = 0 \; , \; y = 0 \; , \; v = 7700 \\ w = 80 \; , \; h = 23 \; , \; x = 20 \; , \; y = 77 \; , \; v = 1840 \\ \end{array}$$



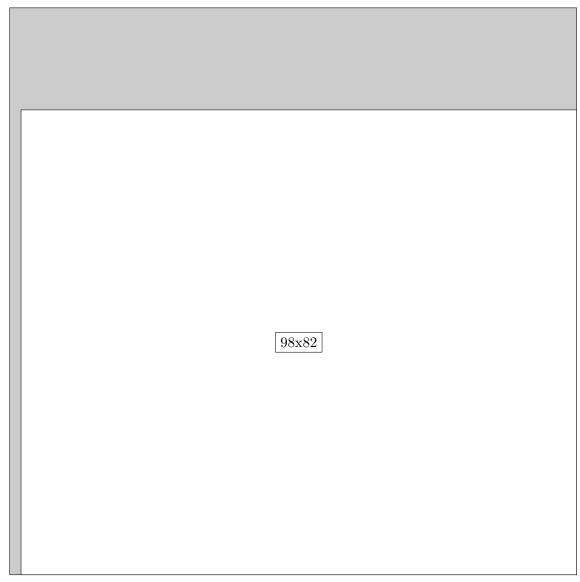
 $\begin{array}{l} w = \! 100 \ , \ h = \! 46 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 4600 \\ w = \! 65 \ , \ h = \! 54 \ , \ x = \! 35 \ , \ y = \! 46 \ , \ v = \! 3510 \\ w = \! 24 \ , \ h = \! 50 \ , \ x = \! 11 \ , \ y = \! 46 \ , \ v = \! 1200 \end{array}$



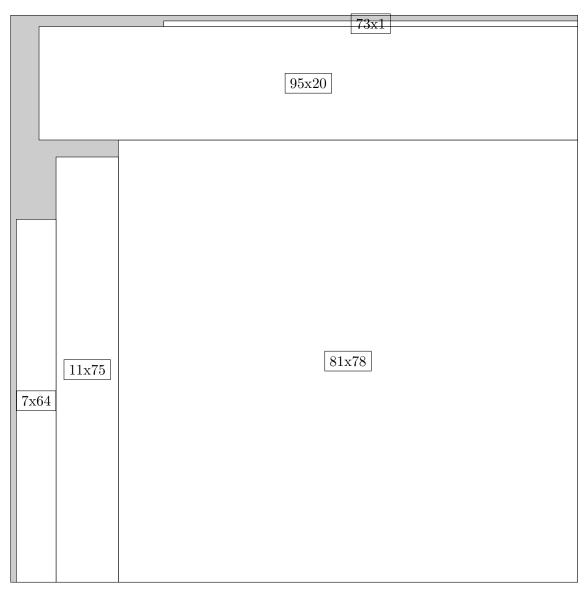
 $\begin{array}{l} w = \! 95 \ , \ h = \! 59 \ , \ x = \! 5 \ , \ y = \! 0 \ , \ v = \! 5605 \\ w = \! 92 \ , \ h = \! 33 \ , \ x = \! 8 \ , \ y = \! 59 \ , \ v = \! 3036 \\ w = \! 80 \ , \ h = \! 8 \ , \ x = \! 20 \ , \ y = \! 92 \ , \ v = \! 640 \\ w = \! 5 \ , \ h = \! 87 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 435 \end{array}$



 $\begin{array}{l} w = \! 88 \;, \; h = \! 55 \;, \; x = \! 12 \;, \; y = \! 0 \;, \; v = \! 4840 \\ w = \! 72 \;, \; h = \! 44 \;, \; x = \! 28 \;, \; y = \! 55 \;, \; v = \! 3168 \\ w = \! 8 \;, \; h = \! 67 \;, \; x = \! 4 \;, \; y = \! 0 \;, \; v = \! 536 \\ w = \! 4 \;, \; h = \! 60 \;, \; x = \! 0 \;, \; y = \! 0 \;, \; v = \! 240 \end{array}$



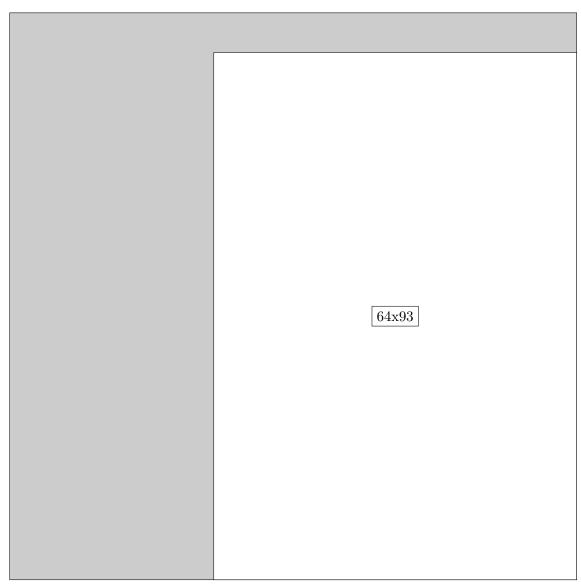
 $\le =98$, h =82 , x =2 , y =0 , v =8036



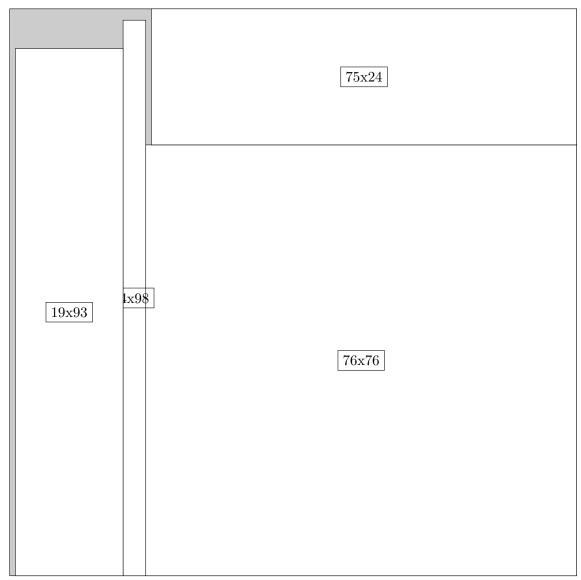
$$\begin{array}{l} w = \! 81 \ , \ h = \! 78 \ , \ x = \! 19 \ , \ y = \! 0 \ , \ v = \! 6318 \\ w = \! 11 \ , \ h = \! 75 \ , \ x = \! 8 \ , \ y = \! 0 \ , \ v = \! 825 \\ w = \! 7 \ , \ h = \! 64 \ , \ x = \! 1 \ , \ y = \! 0 \ , \ v = \! 448 \\ w = \! 95 \ , \ h = \! 20 \ , \ x = \! 5 \ , \ y = \! 78 \ , \ v = \! 1900 \\ w = \! 73 \ , \ h = \! 1 \ , \ x = \! 27 \ , \ y = \! 98 \ , \ v = \! 73 \end{array}$$

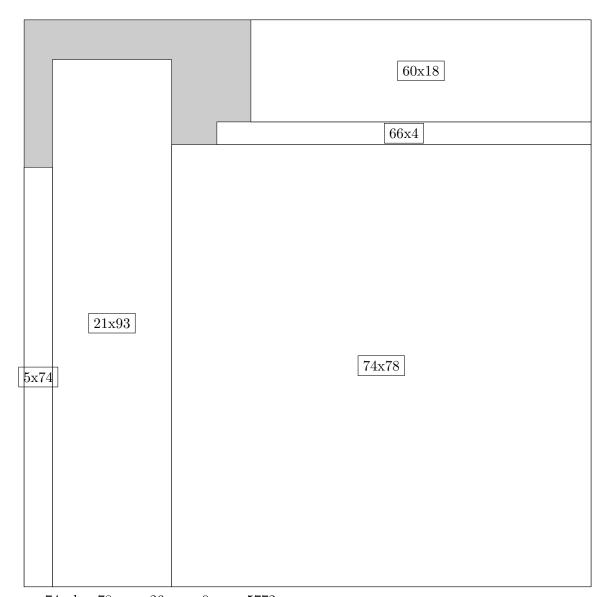
75x25	x3() 12x30	8x11
$92 \mathrm{x} 70$			8x89

```
\begin{array}{l} w=8 \ , \ h=89 \ , \ x=92 \ , \ y=0 \ , \ v=712 \\ w=8 \ , \ h=11 \ , \ x=92 \ , \ y=89 \ , \ v=88 \\ w=92 \ , \ h=70 \ , \ x=0 \ , \ y=0 \ , \ v=6440 \\ w=12 \ , \ h=30 \ , \ x=80 \ , \ y=70 \ , \ v=360 \\ w=4 \ , \ h=30 \ , \ x=76 \ , \ y=70 \ , \ v=120 \\ w=75 \ , \ h=25 \ , \ x=1 \ , \ y=70 \ , \ v=1875 \end{array}
```

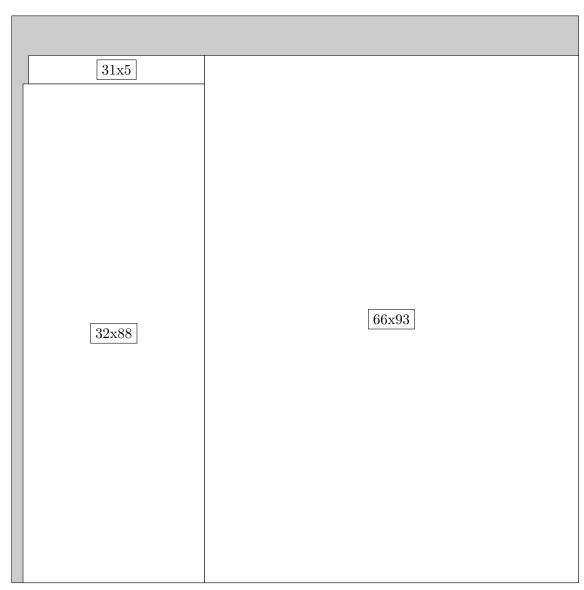


 $\le =64$, h =93 , x =36 , y =0 , v =5952

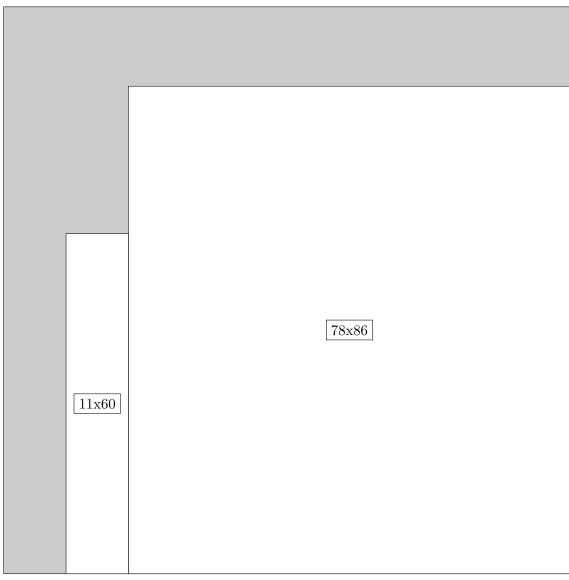




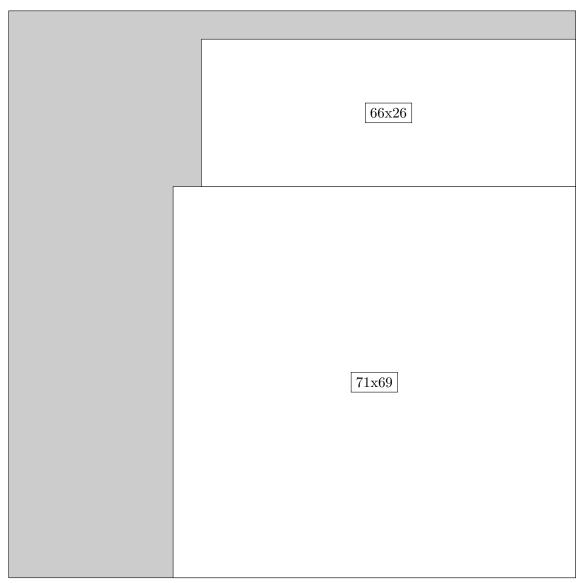
 $\begin{array}{l} w = 74 \; , \; h = 78 \; , \; x = 26 \; , \; y = 0 \; , \; v = 5772 \\ w = 66 \; , \; h = 4 \; , \; x = 34 \; , \; y = 78 \; , \; v = 264 \\ w = 60 \; , \; h = 18 \; , \; x = 40 \; , \; y = 82 \; , \; v = 1080 \\ w = 21 \; , \; h = 93 \; , \; x = 5 \; , \; y = 0 \; , \; v = 1953 \\ w = 5 \; , \; h = 74 \; , \; x = 0 \; , \; y = 0 \; , \; v = 370 \end{array}$



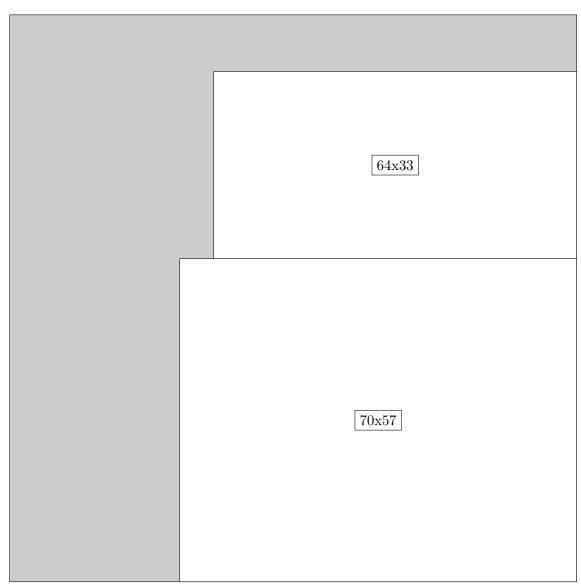
$$\begin{array}{l} w = \!\!66 \ , \ h = \!\!93 \ , \ x = \!\!34 \ , \ y = \!\!0 \ , \ v = \!\!6138 \\ w = \!\!32 \ , \ h = \!\!88 \ , \ x = \!\!2 \ , \ y = \!\!0 \ , \ v = \!\!2816 \\ w = \!\!31 \ , \ h = \!\!5 \ , \ x = \!\!3 \ , \ y = \!\!88 \ , \ v = \!\!155 \end{array}$$



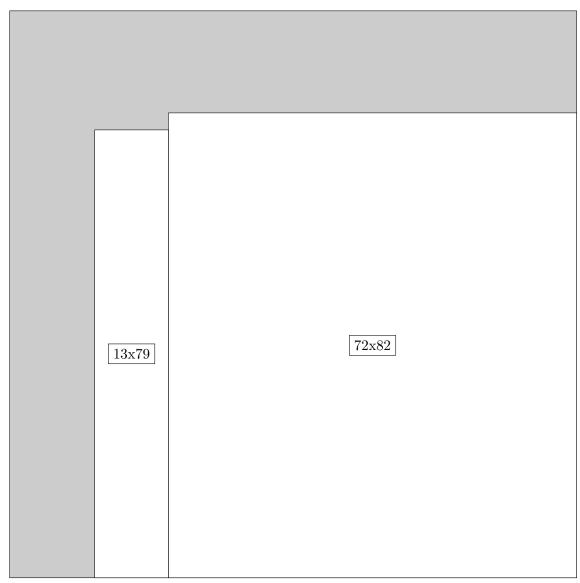
$$\begin{array}{l} w = \! 78 \ , \ h = \! 86 \ , \ x = \! 22 \ , \ y = \! 0 \ , \ v = \! 6708 \\ w = \! 11 \ , \ h = \! 60 \ , \ x = \! 11 \ , \ y = \! 0 \ , \ v = \! 660 \end{array}$$



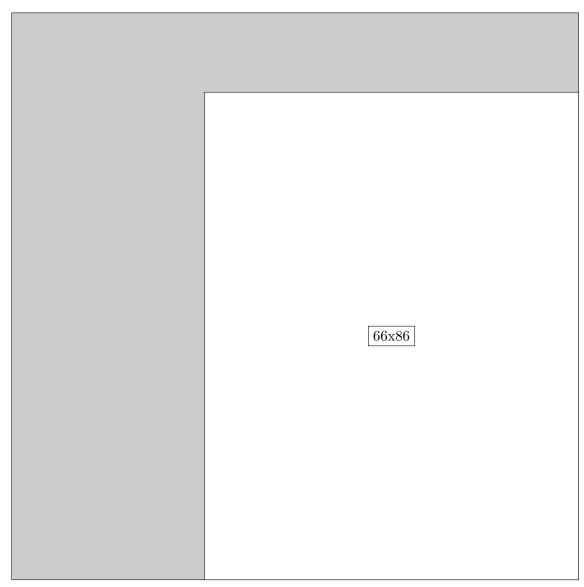
$$\begin{array}{l} w = \! 71 \ , \, h = \! 69 \ , \, x = \! 29 \ , \, y = \! 0 \ , \, v = \! 4899 \\ w = \! 66 \ , \, h = \! 26 \ , \, x = \! 34 \ , \, y = \! 69 \ , \, v = \! 1716 \end{array}$$



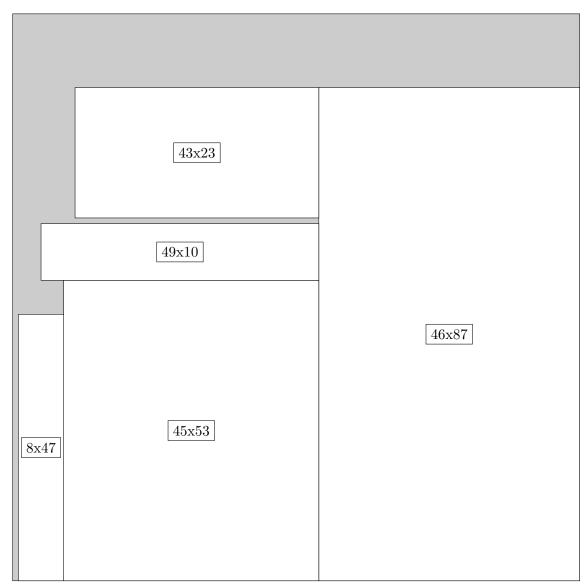
$$\begin{array}{l} w = 70 \ , \ h = \!\! 57 \ , \ x = \!\! 30 \ , \ y = \!\! 0 \ , \ v = \!\! 3990 \\ w = \!\! 64 \ , \ h = \!\! 33 \ , \ x = \!\! 36 \ , \ y = \!\! 57 \ , \ v = \!\! 2112 \end{array}$$

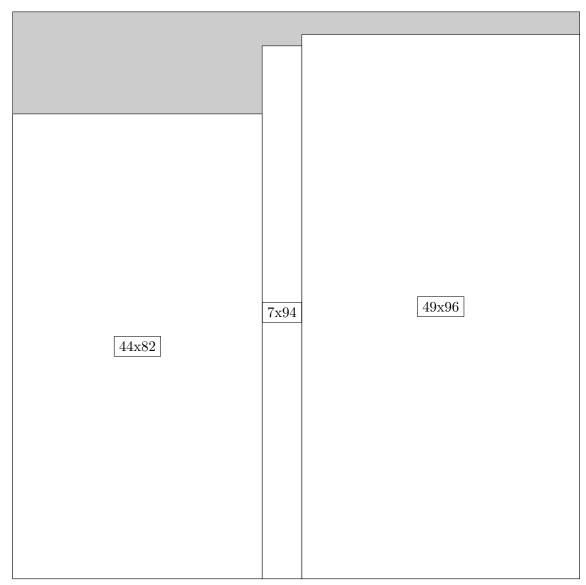


$$\begin{array}{l} w = 72 \ , \ h = 82 \ , \ x = 28 \ , \ y = 0 \ , \ v = 5904 \\ w = 13 \ , \ h = 79 \ , \ x = 15 \ , \ y = 0 \ , \ v = 1027 \end{array}$$

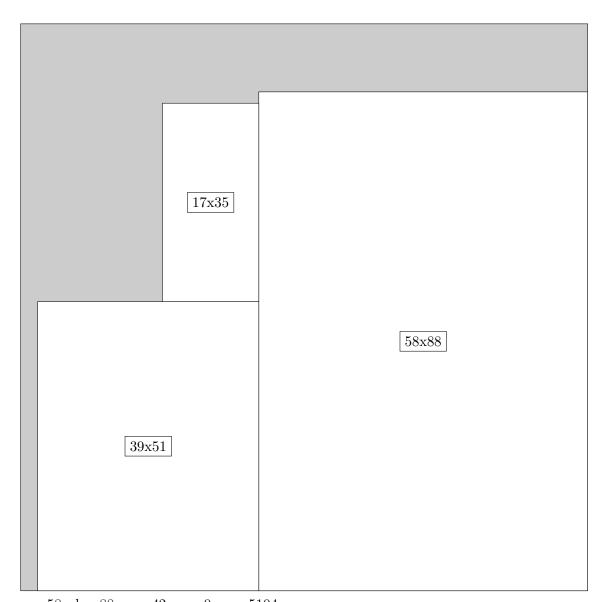


 $\le =66$, h =86 , x =34 , y =0 , v = 5676



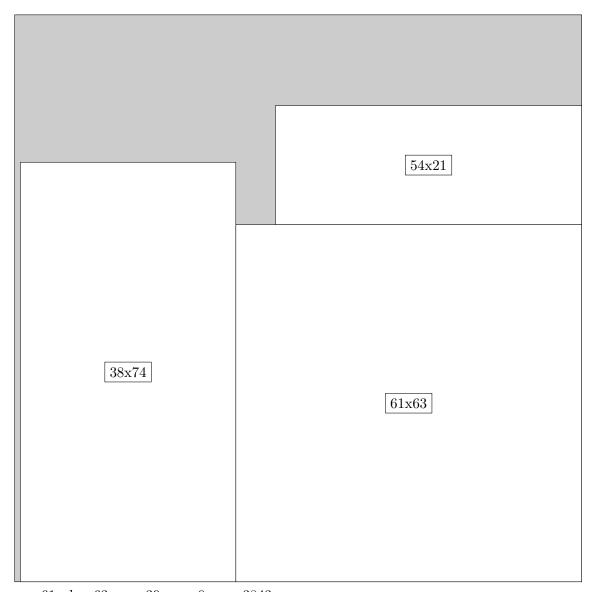


 $\begin{array}{l} w = \!\! 49 \ , \ h = \!\! 96 \ , \ x = \!\! 51 \ , \ y = \!\! 0 \ , \ v = \!\! 4704 \\ w = \!\! 7 \ , \ h = \!\! 94 \ , \ x = \!\! 44 \ , \ y = \!\! 0 \ , \ v = \!\! 658 \\ w = \!\! 44 \ , \ h = \!\! 82 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 3608 \end{array}$



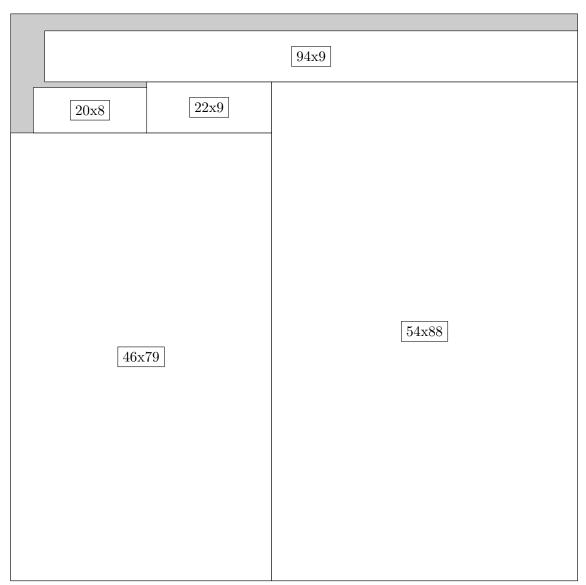
$$\begin{array}{l} w = \! 58 \ , \ h = \! 88 \ , \ x = \! 42 \ , \ y = \! 0 \ , \ v = \! 5104 \\ w = \! 39 \ , \ h = \! 51 \ , \ x = \! 3 \ , \ y = \! 0 \ , \ v = \! 1989 \end{array}$$

$$\le =17$$
 , $h=35$, $x=25$, $y=51$, $v=595$



 $\begin{array}{l} w = \! 61 \; , \; h = \! 63 \; , \; x = \! 39 \; , \; y = \! 0 \; , \; v = \! 3843 \\ w = \! 54 \; , \; h = \! 21 \; , \; x = \! 46 \; , \; y = \! 63 \; , \; v = \! 1134 \end{array}$

 ≤ 38 , h =74 , x =1 , y =0 , v =2812



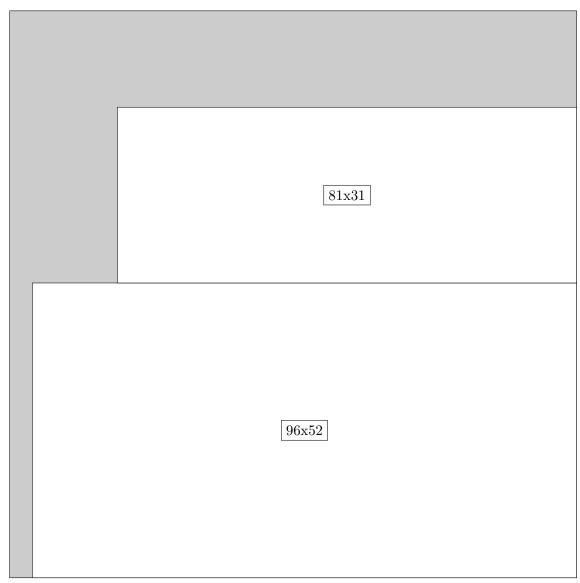
$$w=\!54$$
 , $h=\!88$, $x=\!46$, $y=\!0$, $v=\!4752$

$$\mathbf{w}=\!\!46$$
 , $\mathbf{h}=\!\!79$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!0$, $\mathbf{v}=\!\!3634$

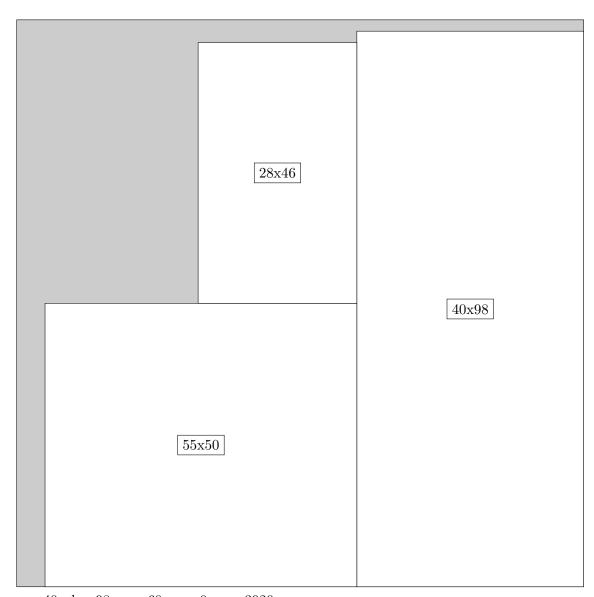
$$\le =22$$
 , h =9 , x =24 , y =79 , v =198

$$\le =20$$
 , h =8 , x =4 , y =79 , v =160

$$w = 94$$
, $h = 9$, $x = 6$, $y = 88$, $v = 846$

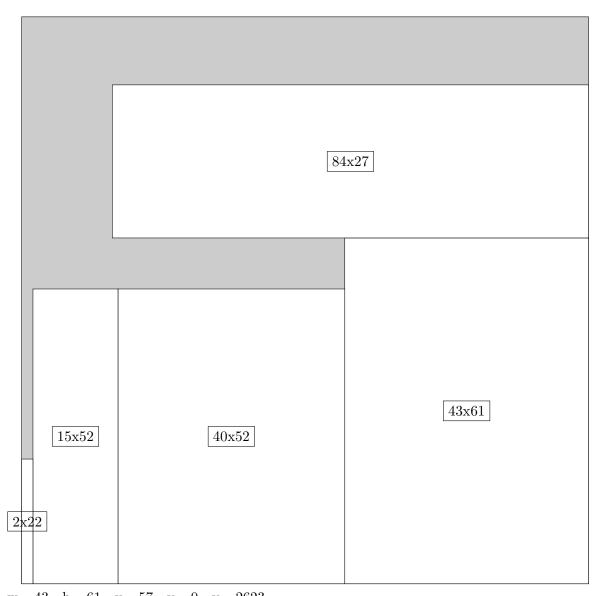


$$\begin{array}{l} w = 96 \; , \; h = \!\! 52 \; , \; x = \!\! 4 \; , \; y = \!\! 0 \; , \; v = \!\! 4992 \\ w = \!\! 81 \; , \; h = \!\! 31 \; , \; x = \!\! 19 \; , \; y = \!\! 52 \; , \; v = \!\! 2511 \end{array}$$



$$\le =55$$
 , h =50 , x =5 , y =0 , v =2750

$$\le =28$$
 , h =46 , x =32 , y =50 , v =1288



w =43 , h =61 , x =57 , y =0 , v =2623 w =40 , h =52 , x =17 , y =0 , v =2080 w =15 , h =52 , x =2 , y =0 , v =780 w =2 , h =22 , x =0 , y =0 , v =44

 $\le =84$, h =27 , x =16 , y =61 , v =2268