$ClassName: \ Class_07.2bp-40$

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

TypeNum: <u>98</u>
Num: <u>100</u>
OutS: <u>270000</u>
InS: <u>235954</u>
Rate: <u>0.874</u>
UB: <u>27</u>
LB0: <u>27</u>

LBWithCut: $\underline{27}$ NodeCut: $\underline{0}$

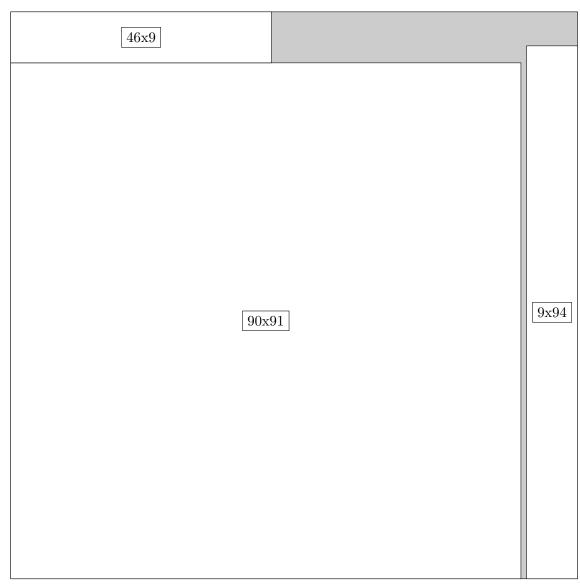
LB: **27**

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

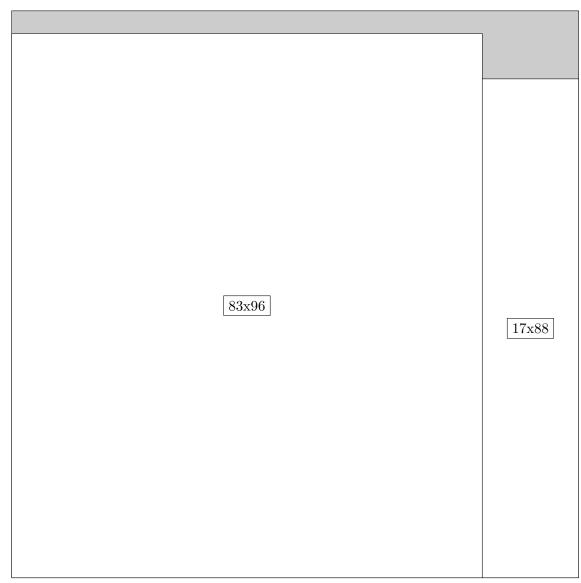
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{27}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

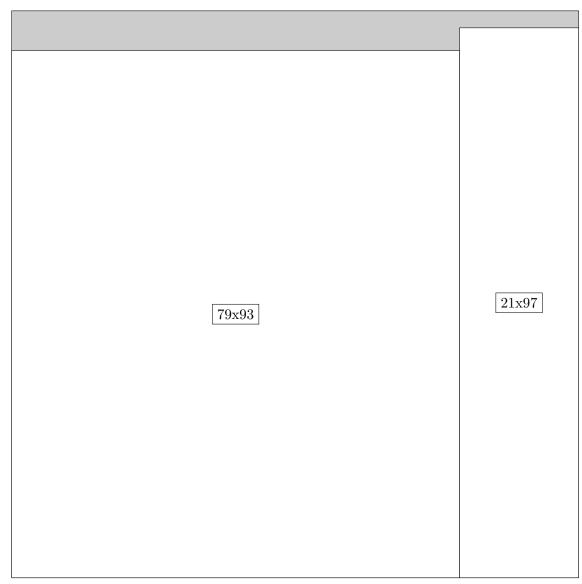
TimeOnInitSolution: 0.270 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.410 s

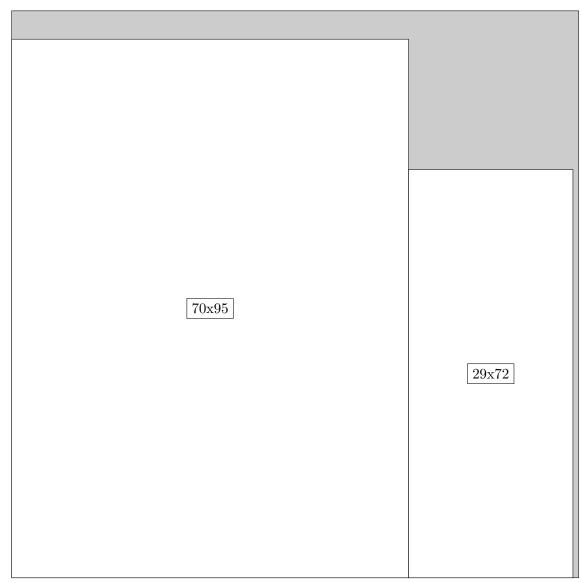


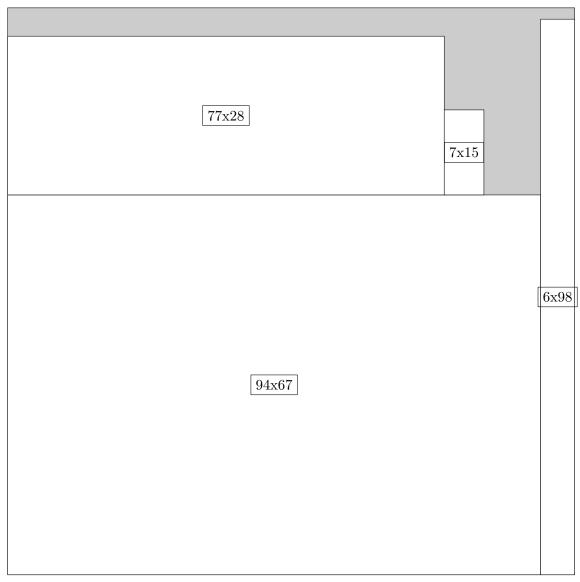
$$\begin{array}{l} w = & 90 \ , \ h = & 91 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 8190 \\ w = & 9 \ , \ h = & 94 \ , \ x = & 91 \ , \ y = & 0 \ , \ v = & 846 \\ w = & 46 \ , \ h = & 9 \ , \ x = & 0 \ , \ y = & 91 \ , \ v = & 414 \end{array}$$



$$\begin{array}{c} w = \! 83 \; , \; h = \! 96 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 7968 \\ w = \! 17 \; , \; h = \! 88 \; , \; x = \! 83 \; , \; y = \! 0 \; , \; v = \! 1496 \\ \end{array}$$





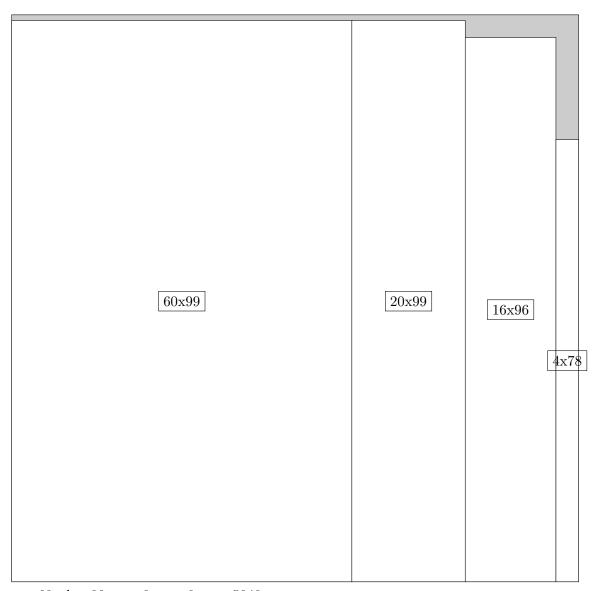


$$\mathbf{w}$$
 =94 , h =67 , x =0 , y =0 , v =6298

$$\le =77$$
 , h =28 , x =0 , y =67 , v =2156

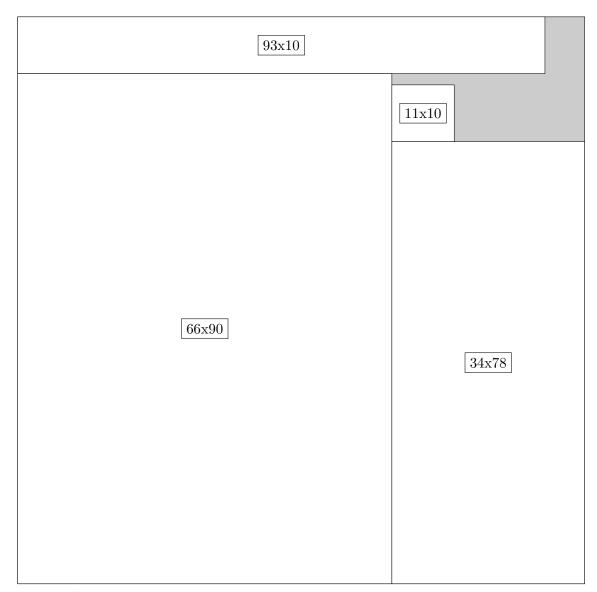
$$\mathbf{w}$$
 =6 , h =98 , x =94 , y =0 , v =588

$$\mathbf{w}$$
 =7 , \mathbf{h} =15 , \mathbf{x} =77 , \mathbf{y} =67 , \mathbf{v} =105



 $\begin{array}{l} w = \!\!60 \ , \ h = \!\!99 \ , \ x = \!\!0 \ , \ y = \!\!0 \ , \ v = \!\!5940 \\ w = \!\!20 \ , \ h = \!\!99 \ , \ x = \!\!60 \ , \ y = \!\!0 \ , \ v = \!\!1980 \\ w = \!\!16 \ , \ h = \!\!96 \ , \ x = \!\!80 \ , \ y = \!\!0 \ , \ v = \!\!1536 \end{array}$

 $\mathbf{w}=\!\!4$, $\mathbf{h}=\!\!78$, $\mathbf{x}=\!\!96$, $\mathbf{y}=\!\!0$, $\mathbf{v}=\!\!312$

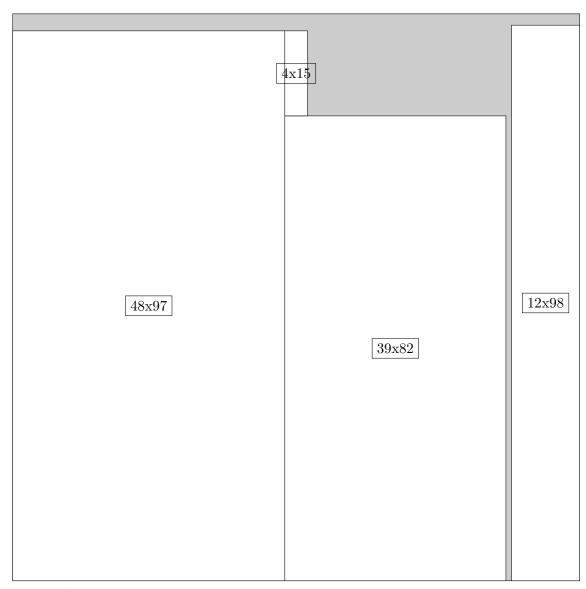


$$\begin{array}{l} w = \!\! 66 \ , \ h = \!\! 90 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 5940 \\ w = \!\! 34 \ , \ h = \!\! 78 \ , \ x = \!\! 66 \ , \ y = \!\! 0 \ , \ v = \!\! 2652 \end{array}$$

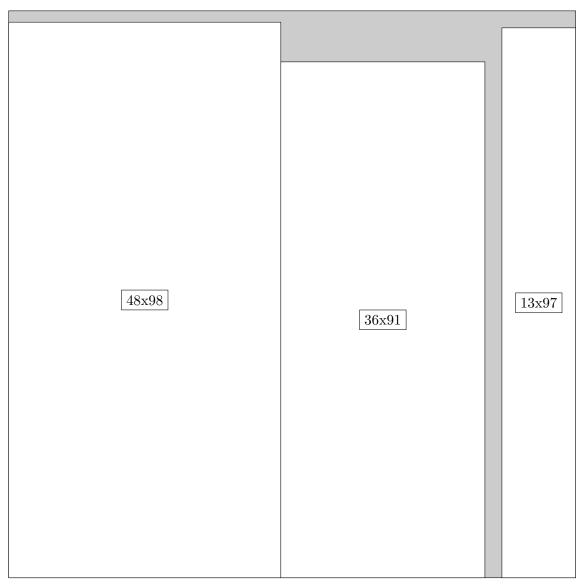
$$\le =93$$
 , h =10 , x =0 , y =90 , v =930

$$w = 93$$
, $h = 10$, $x = 0$, $y = 90$, $v = 930$

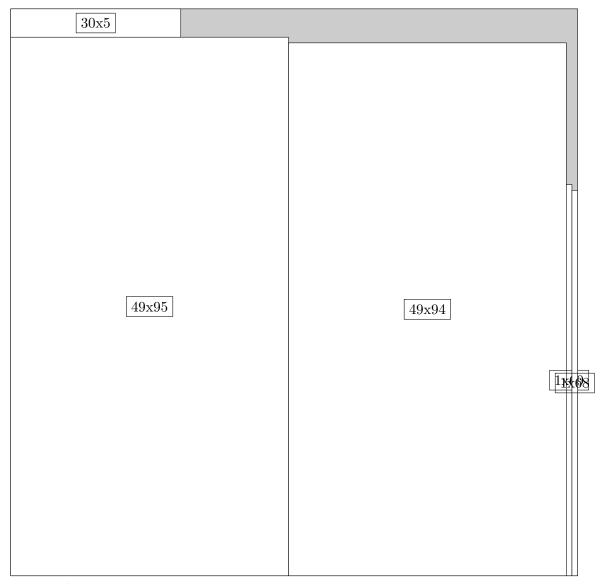
$$\mathbf{w}$$
 =11 , h =10 , x =66 , y =78 , v =110



$$\begin{array}{l} w = \!\! 48 \ , \ h = \!\! 97 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 4656 \\ w = \!\! 39 \ , \ h = \!\! 82 \ , \ x = \!\! 48 \ , \ y = \!\! 0 \ , \ v = \!\! 3198 \\ w = \!\! 12 \ , \ h = \!\! 98 \ , \ x = \!\! 88 \ , \ y = \!\! 0 \ , \ v = \!\! 1176 \\ w = \!\! 4 \ , \ h = \!\! 15 \ , \ x = \!\! 48 \ , \ y = \!\! 82 \ , \ v = \!\! 60 \end{array}$$



 $\begin{array}{l} w = \!\! 48 \ , \ h = \!\! 98 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 4704 \\ w = \!\! 36 \ , \ h = \!\! 91 \ , \ x = \!\! 48 \ , \ y = \!\! 0 \ , \ v = \!\! 3276 \\ w = \!\! 13 \ , \ h = \!\! 97 \ , \ x = \!\! 87 \ , \ y = \!\! 0 \ , \ v = \!\! 1261 \end{array}$

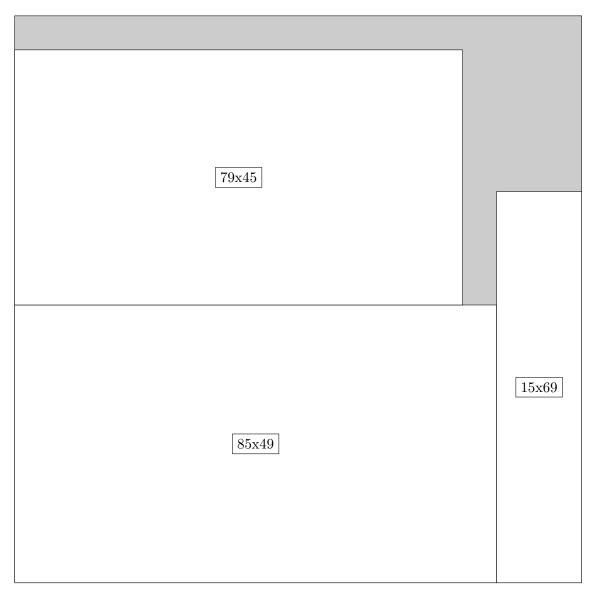


$$\begin{array}{l} w = \! 49 \;,\; h = \! 95 \;,\; x = \! 0 \;,\; y = \! 0 \;,\; v = \! 4655 \\ w = \! 49 \;,\; h = \! 94 \;,\; x = \! 49 \;,\; y = \! 0 \;,\; v = \! 4606 \\ w = \! 30 \;,\; h = \! 5 \;,\; x = \! 0 \;,\; y = \! 95 \;,\; v = \! 150 \\ w = \! 1 \;,\; h = \! 69 \;,\; x = \! 98 \;,\; y = \! 0 \;,\; v = \! 69 \\ w = \! 1 \;,\; h = \! 68 \;,\; x = \! 99 \;,\; y = \! 0 \;,\; v = \! 68 \end{array}$$

| $\boxed{45\mathrm{x}94}$ | $\boxed{35\mathrm{x}94}$ | 19x94 |
|--------------------------|--------------------------|-------|
| | | |

 $\begin{array}{l} w = \!\! 45 \ , \ h = \!\! 94 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 4230 \\ w = \!\! 35 \ , \ h = \!\! 94 \ , \ x = \!\! 45 \ , \ y = \!\! 0 \ , \ v = \!\! 3290 \end{array}$

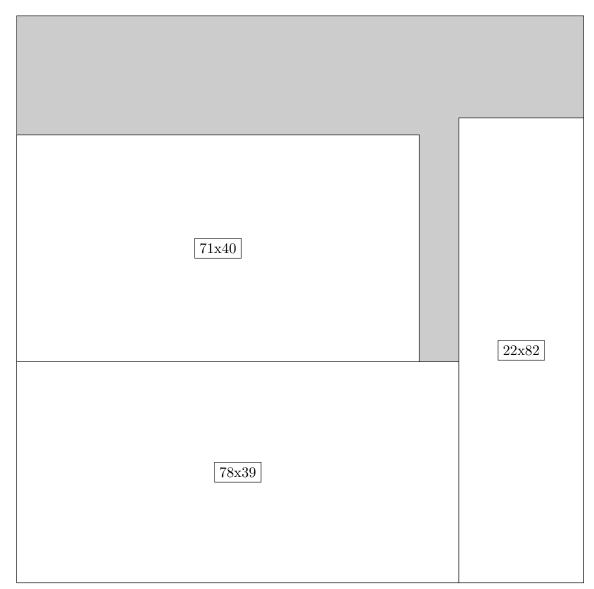
 $\le =19$, h =94 , x =80 , y =0 , v =1786



$$w = 85$$
, $h = 49$, $x = 0$, $y = 0$, $v = 4165$

$$\le =79$$
 , h =45 , x =0 , y =49 , v =3555

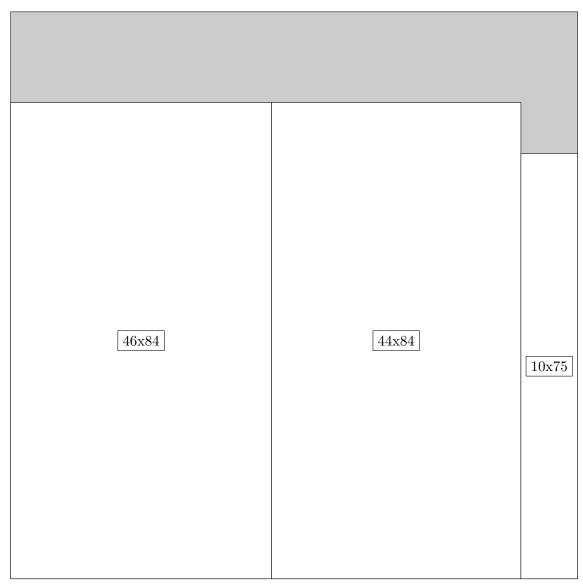
$$\le =15$$
 , $h=69$, $x=85$, $y=0$, $v=1035$



$$w = 78$$
, $h = 39$, $x = 0$, $y = 0$, $v = 3042$

$$\le =71$$
 , h =40 , x =0 , y =39 , v =2840

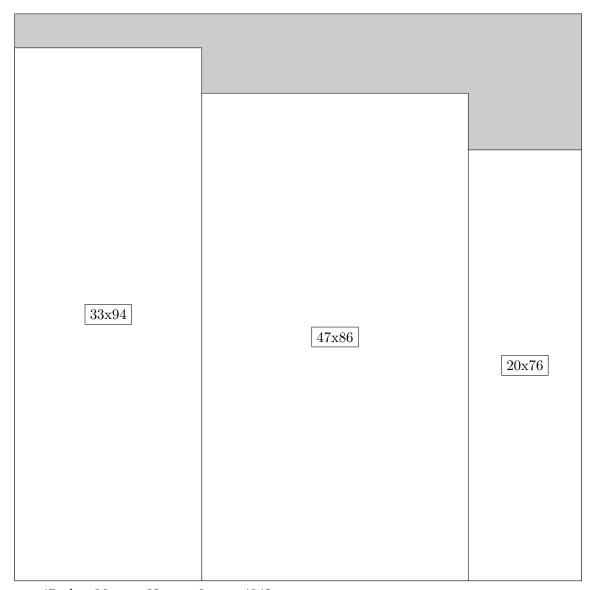
$$\le =22$$
 , h =82 , x =78 , y =0 , v =1804



$$w = 46$$
, $h = 84$, $x = 0$, $y = 0$, $v = 3864$

$$\le =44$$
 , $h=84$, $x=46$, $y=0$, $v=3696$

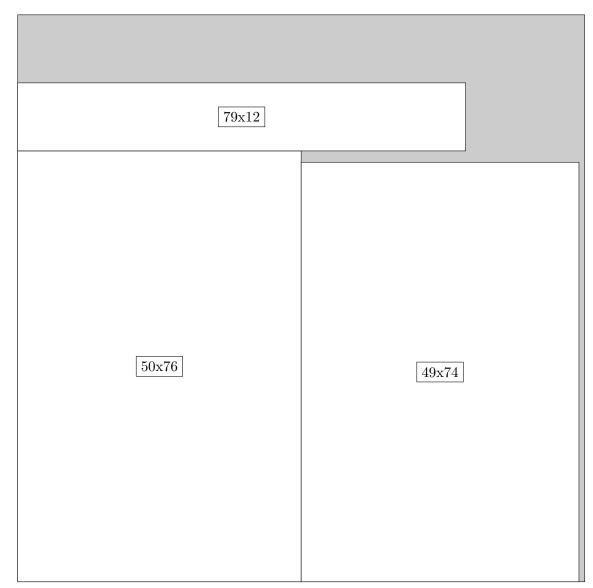
$$\le =10$$
 , h =75 , x =90 , y =0 , v =750



$$\le =47$$
 , h =86 , x =33 , y =0 , v =4042

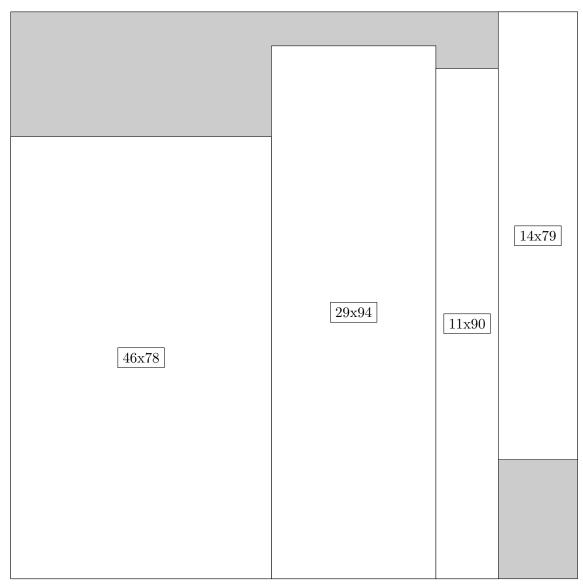
$$\le =33$$
 , h =94 , x =0 , y =0 , v =3102

$$\le =20$$
 , h =76 , x =80 , y =0 , v =1520



$$w = 50$$
, $h = 76$, $x = 0$, $y = 0$, $v = 3800$

$$\begin{array}{l} w = \! 49 \ , \ h = \! 74 \ , \ x = \! 50 \ , \ y = \! 0 \ , \ v = \! 3626 \\ w = \! 79 \ , \ h = \! 12 \ , \ x = \! 0 \ , \ y = \! 76 \ , \ v = \! 948 \end{array}$$

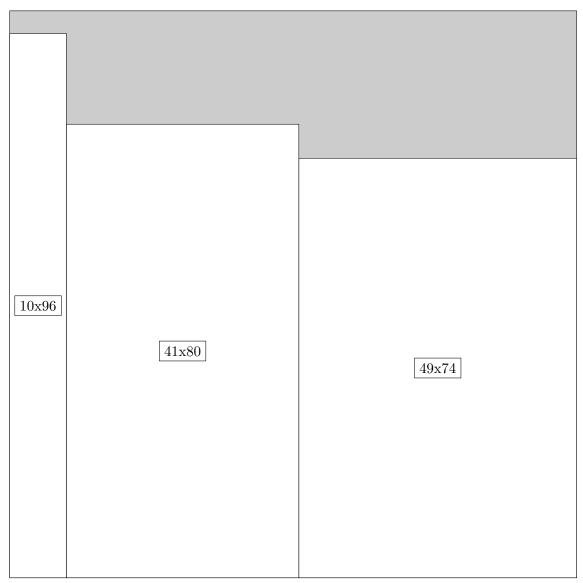


$$\mathbf{w}$$
 =46 , h =78 , x =0 , y =0 , v =3588

$$\le =29$$
 , h =94 , x =46 , y =0 , v =2726

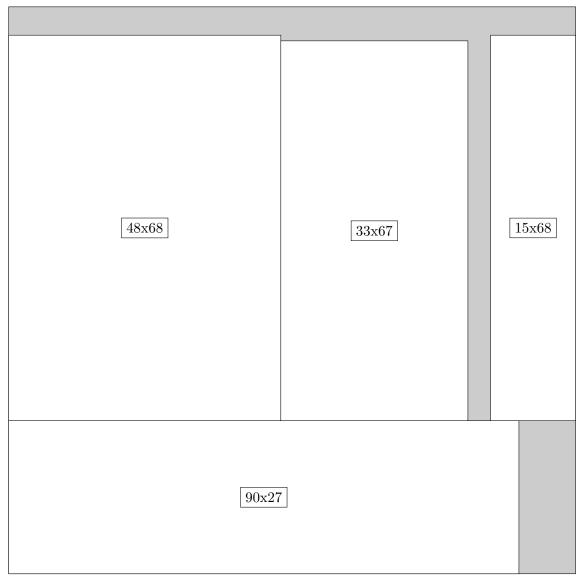
$$\le =14$$
 , h =79 , x =86 , y =21 , v =1106

$$\mathbf{w}$$
 =11 , h =90 , x =75 , y =0 , v =990



$$w=49$$
 , $h=74$, $x=51$, $y=0$, $v=3626$ $w=41$, $h=80$, $x=10$, $y=0$, $v=3280$

$$\le =10$$
 , h =96 , x =0 , y =0 , v =960



$$\le =90$$
 , h =27 , x =0 , y =0 , v =2430

$$\le =48$$
 , h =68 , x =0 , y =27 , v =3264

$$\le =33$$
 , h =67 , x =48 , y =27 , v =2211

$$\le =15$$
 , $h=68$, $x=85$, $y=27$, $v=1020$

| 69x21 | | |
|-------|-------|-------|
| 47x74 | 43x74 | 10x75 |

$$\mathbf{w}$$
 =47 , \mathbf{h} =74 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =3478

$$\le =43$$
 , h =74 , x =47 , y =0 , v =3182

$$\le =69$$
 , h =21 , x =0 , y =74 , v =1449

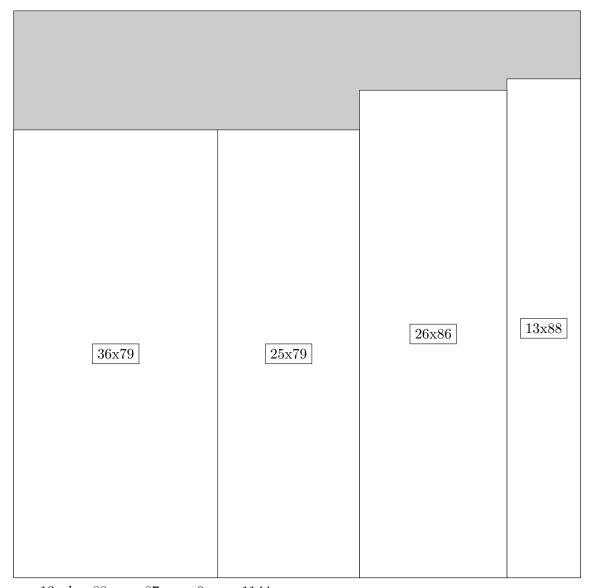
$$\mathbf{w}$$
 =10 , h =75 , x =90 , y =0 , v =750

| 71x11 | | |
|------------------------|-------|-------|
| | | |
| $\boxed{45\text{x}69}$ | 41x69 | 13x75 |

$$\begin{array}{l} w = \!\! 45 \ , \ h = \!\! 69 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 3105 \\ w = \!\! 41 \ , \ h = \!\! 69 \ , \ x = \!\! 45 \ , \ y = \!\! 0 \ , \ v = \!\! 2829 \end{array}$$

$$w = 13$$
, $h = 75$, $x = 86$, $y = 0$, $v = 975$

$$\mathbf{w}$$
 =71 , h =11 , x =0 , y =75 , v =781

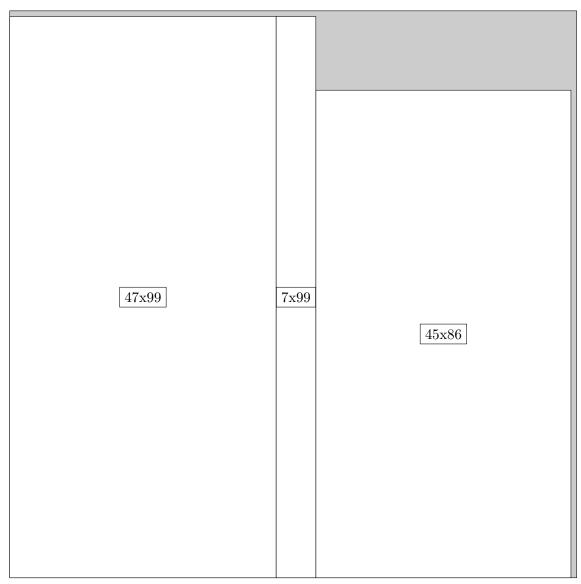


 $\le =13$, h =88 , x =87 , y =0 , v =1144

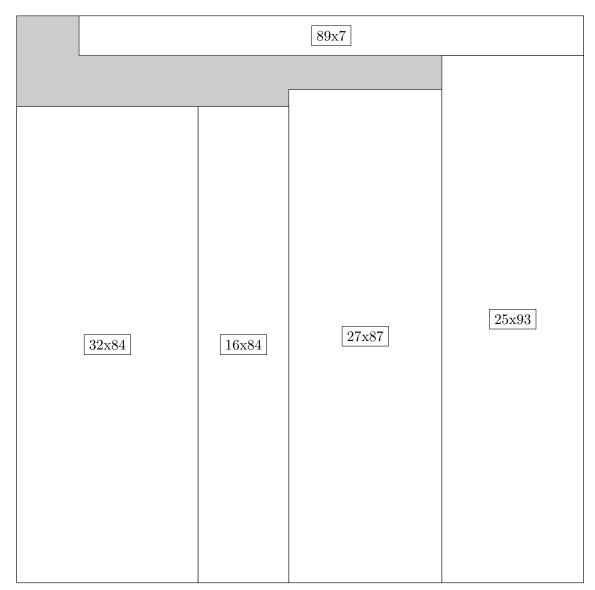
 $\le =36$, h =79 , x =0 , y =0 , v =2844

 $\le =26$, h =86 , x =61 , y =0 , v =2236

 \mathbf{w} =25 , h =79 , x =36 , y =0 , v =1975



 $\begin{array}{l} w = \!\! 47 \ , \ h = \!\! 99 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 4653 \\ w = \!\! 45 \ , \ h = \!\! 86 \ , \ x = \!\! 54 \ , \ y = \!\! 0 \ , \ v = \!\! 3870 \\ w = \!\! 7 \ , \ h = \!\! 99 \ , \ x = \!\! 47 \ , \ y = \!\! 0 \ , \ v = \!\! 693 \end{array}$



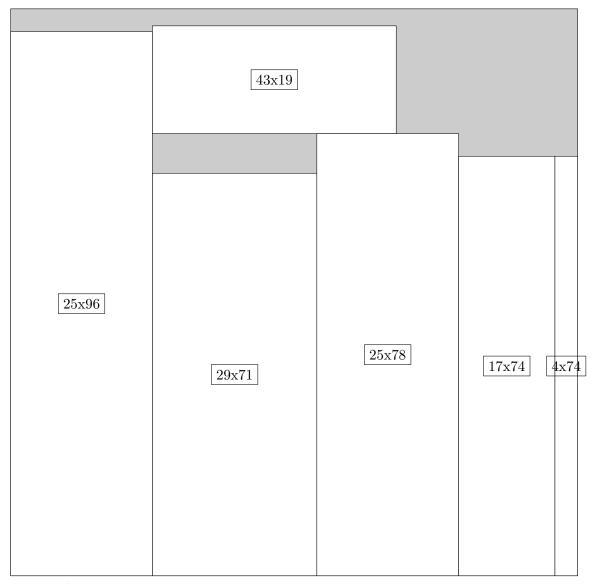
$$w = 32$$
, $h = 84$, $x = 0$, $y = 0$, $v = 2688$

$$\le =27$$
 , h =87 , x =48 , y =0 , v =2349

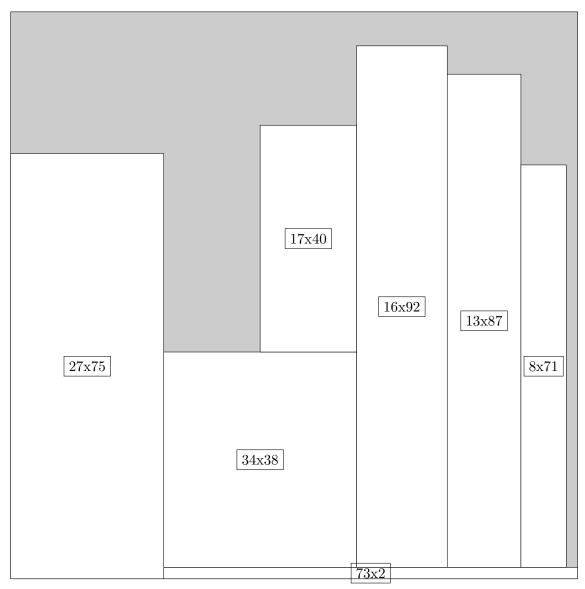
$$\le =25$$
 , h =93 , x =75 , y =0 , v =2325

$$\mathbf{w}$$
 =16 , h =84 , x =32 , y =0 , v =1344

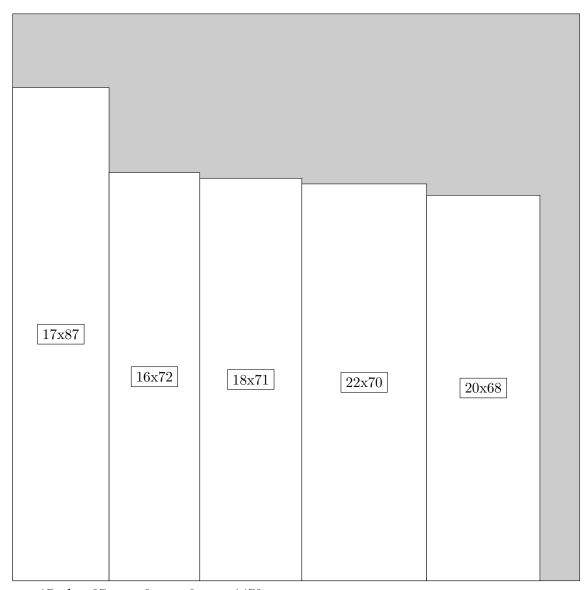
$$\le =89$$
 , h =7 , x =11 , y =93 , v =623



$$\begin{array}{l} w=25 \ , \ h=96 \ , \ x=0 \ , \ y=0 \ , \ v=2400 \\ w=29 \ , \ h=71 \ , \ x=25 \ , \ y=0 \ , \ v=2059 \\ w=25 \ , \ h=78 \ , \ x=54 \ , \ y=0 \ , \ v=1950 \\ w=17 \ , \ h=74 \ , \ x=79 \ , \ y=0 \ , \ v=1258 \\ w=43 \ , \ h=19 \ , \ x=25 \ , \ y=78 \ , \ v=817 \\ w=4 \ , \ h=74 \ , \ x=96 \ , \ y=0 \ , \ v=296 \end{array}$$



$$\begin{array}{l} w=27 \;,\; h=75 \;,\; x=0 \;,\; y=0 \;,\; v=2025 \\ w=13 \;,\; h=87 \;,\; x=77 \;,\; y=2 \;,\; v=1131 \\ w=16 \;,\; h=92 \;,\; x=61 \;,\; y=2 \;,\; v=1472 \\ w=34 \;,\; h=38 \;,\; x=27 \;,\; y=2 \;,\; v=1292 \\ w=17 \;,\; h=40 \;,\; x=44 \;,\; y=40 \;,\; v=680 \\ w=8 \;,\; h=71 \;,\; x=90 \;,\; y=2 \;,\; v=568 \\ w=73 \;,\; h=2 \;,\; x=27 \;,\; y=0 \;,\; v=146 \end{array}$$



 $\le =17$, h =87 , x =0 , y =0 , v =1479

 $\le =20$, h=68 , x=73 , y=0 , v=1360

 $\le =18$, h =71 , x =33 , y =0 , v =1278

 \mathbf{w} =16 , h =72 , x =17 , y =0 , v =1152

w = 22, h = 70, x = 51, y = 0, v = 1540