${\bf ClassName:}\ {\bf Class\_03.2bp\text{-}33}$ 

BinSize:  $\underline{40 \times 40}$ ReduceSize:  $\underline{40 \times 40}$ 

TypeNum: <u>78</u>
Num: <u>80</u>
OutS: <u>28800</u>
InS: <u>26128</u>
Rate: <u>0.907</u>
UB: <u>18</u>
LB0: <u>18</u>
LB: <u>18</u>

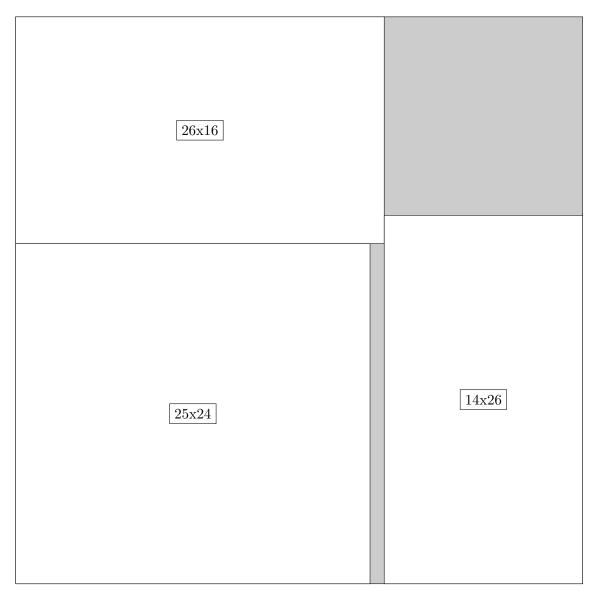
LBWithCut:  $\underline{\mathbf{18}}$ NodeCut:  $\underline{\mathbf{0}}$ 

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

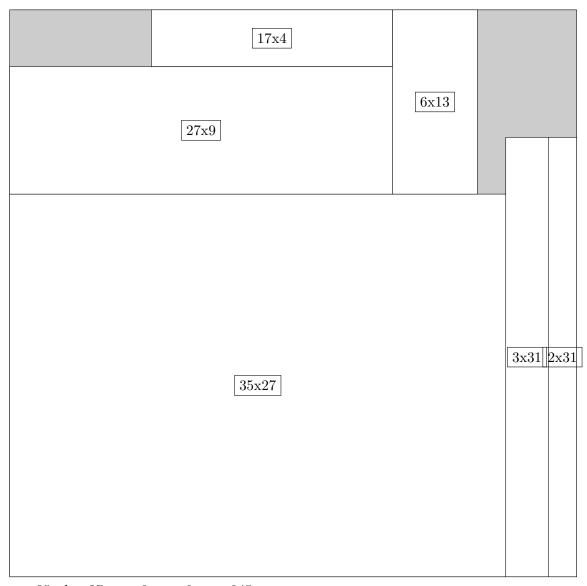
GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{18}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

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

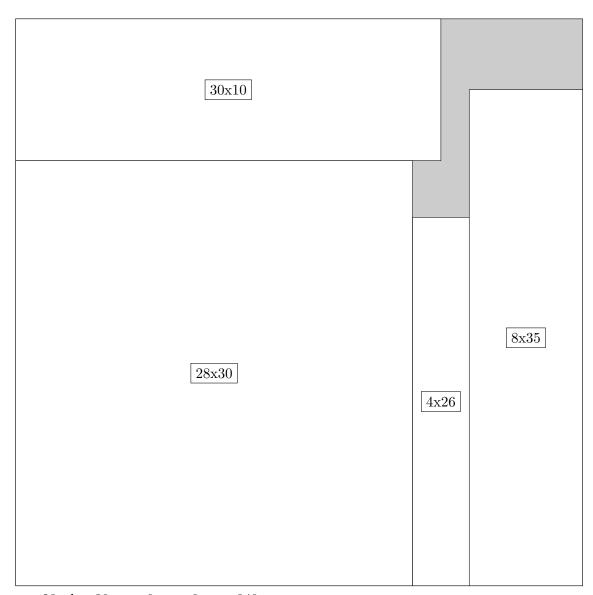
TimeOnInitSolution: 0.160 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.301 s



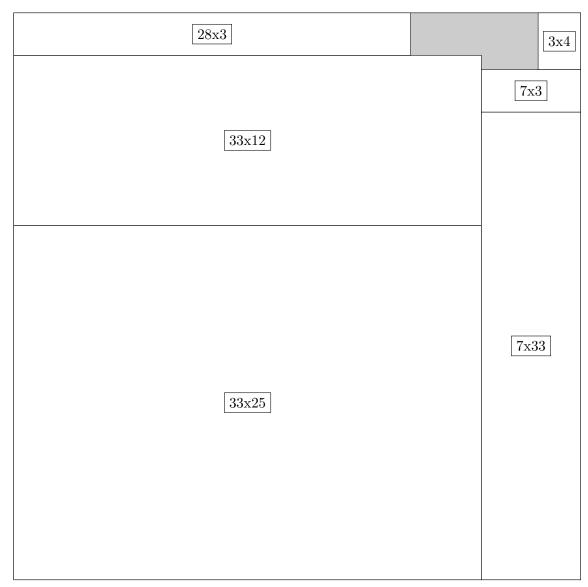
$$\begin{array}{l} w = 25 \ , \ h = 24 \ , \ x = 0 \ , \ y = 0 \ , \ v = 600 \\ w = 26 \ , \ h = 16 \ , \ x = 0 \ , \ y = 24 \ , \ v = 416 \\ w = 14 \ , \ h = 26 \ , \ x = 26 \ , \ y = 0 \ , \ v = 364 \end{array}$$



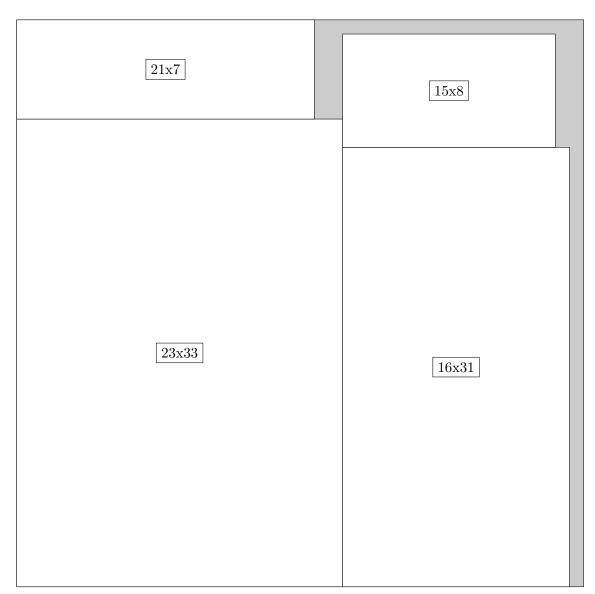
$$\begin{array}{l} w = & 35 \ , \ h = & 27 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 945 \\ w = & 27 \ , \ h = & 9 \ , \ x = & 0 \ , \ y = & 27 \ , \ v = & 243 \\ w = & 3 \ , \ h = & 31 \ , \ x = & 35 \ , \ y = & 0 \ , \ v = & 93 \\ w = & 6 \ , \ h = & 13 \ , \ x = & 27 \ , \ y = & 27 \ , \ v = & 78 \\ w = & 17 \ , \ h = & 4 \ , \ x = & 10 \ , \ y = & 36 \ , \ v = & 68 \\ w = & 2 \ , \ h = & 31 \ , \ x = & 38 \ , \ y = & 0 \ , \ v = & 62 \end{array}$$



 $\begin{array}{l} w = 28 \ , \ h = 30 \ , \ x = 0 \ , \ y = 0 \ , \ v = 840 \\ w = 30 \ , \ h = 10 \ , \ x = 0 \ , \ y = 30 \ , \ v = 300 \\ w = 8 \ , \ h = 35 \ , \ x = 32 \ , \ y = 0 \ , \ v = 280 \\ w = 4 \ , \ h = 26 \ , \ x = 28 \ , \ y = 0 \ , \ v = 104 \end{array}$ 



$$\begin{array}{l} w = 33 \; , \; h = 25 \; , \; x = 0 \; , \; y = 0 \; , \; v = 825 \\ w = 33 \; , \; h = 12 \; , \; x = 0 \; , \; y = 25 \; , \; v = 396 \\ w = 7 \; , \; h = 33 \; , \; x = 33 \; , \; y = 0 \; , \; v = 231 \\ w = 28 \; , \; h = 3 \; , \; x = 0 \; , \; y = 37 \; , \; v = 84 \\ w = 7 \; , \; h = 3 \; , \; x = 33 \; , \; y = 33 \; , \; v = 21 \\ w = 3 \; , \; h = 4 \; , \; x = 37 \; , \; y = 36 \; , \; v = 12 \end{array}$$

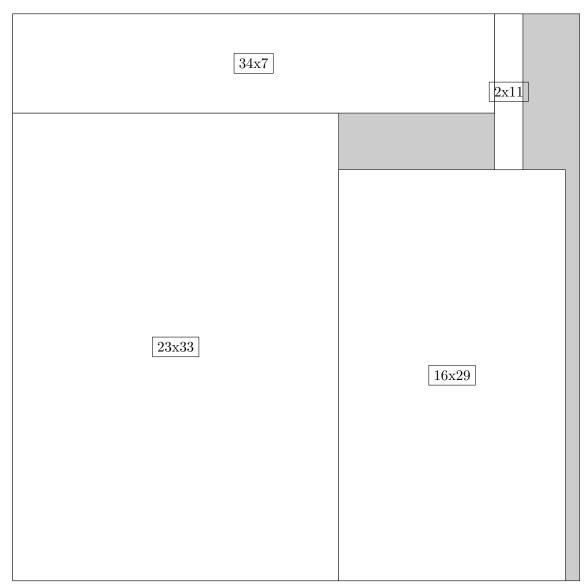


$$\begin{array}{l} w = \! 23 \ , \ h = \! 33 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 759 \\ w = \! 16 \ , \ h = \! 31 \ , \ x = \! 23 \ , \ y = \! 0 \ , \ v = \! 496 \end{array}$$

$$w = 21$$
,  $h = 7$ ,  $x = 0$ ,  $y = 33$ ,  $v = 147$ 

$$w = 21$$
,  $h = 7$ ,  $x = 0$ ,  $y = 33$ ,  $v = 147$ 

$$\mathbf{w}$$
 =15 , h =8 , x =23 , y =31 , v =120



$$\begin{array}{l} w=23 \ , \ h=33 \ , \ x=0 \ , \ y=0 \ , \ v=759 \\ w=16 \ , \ h=29 \ , \ x=23 \ , \ y=0 \ , \ v=464 \\ w=34 \ , \ h=7 \ , \ x=0 \ , \ y=33 \ , \ v=238 \\ w=2 \ , \ h=11 \ , \ x=34 \ , \ y=29 \ , \ v=22 \end{array}$$

33x4 23x2 26x1 14x3526x29

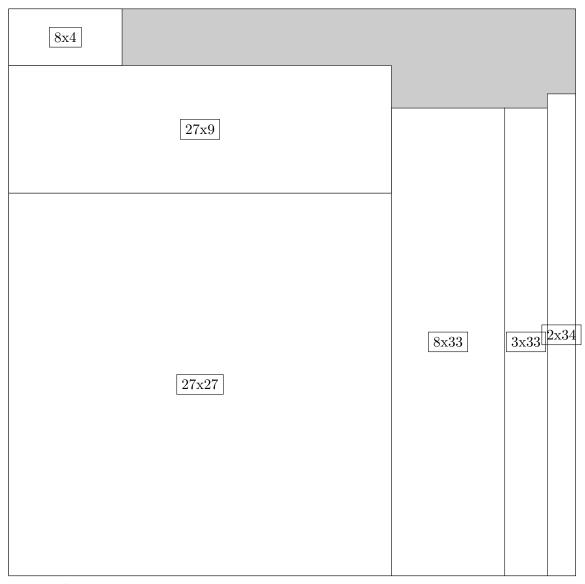
$$\le =26$$
 ,  $h=29$  ,  $x=0$  ,  $y=0$  ,  $v=754$ 

$$\le =14$$
 ,  $= 35$  ,  $= 26$  ,  $y = 0$  ,  $v = 490$ 

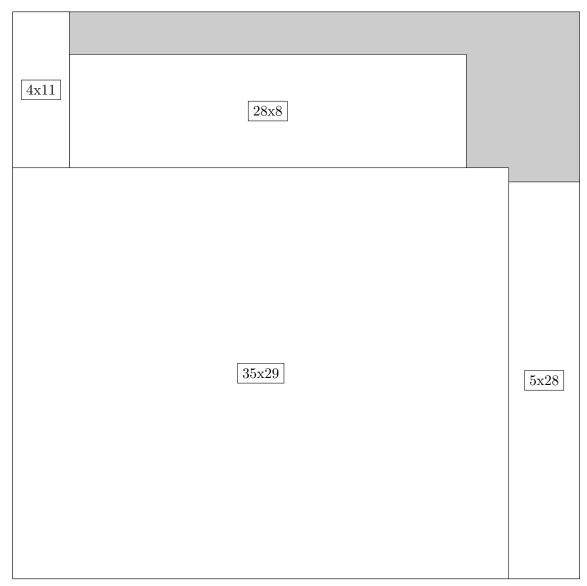
$$\le =33$$
 , h =4 , x =7 , y =35 , v =132

$$\le =23$$
 ,  $h=2$  ,  $x=0$  ,  $y=30$  ,  $v=46$ 

$$\mathbf{w}=\!26$$
 ,  $\mathbf{h}=\!1$  ,  $\mathbf{x}=\!0$  ,  $\mathbf{y}=\!29$  ,  $\mathbf{v}=\!26$ 



$$\begin{array}{l} w=27\;,\; h=27\;,\; x=0\;,\; y=0\;,\; v=729\\ w=8\;,\; h=33\;,\; x=27\;,\; y=0\;,\; v=264\\ w=27\;,\; h=9\;,\; x=0\;,\; y=27\;,\; v=243\\ w=3\;,\; h=33\;,\; x=35\;,\; y=0\;,\; v=99\\ w=2\;,\; h=34\;,\; x=38\;,\; y=0\;,\; v=68\\ w=8\;,\; h=4\;,\; x=0\;,\; y=36\;,\; v=32 \end{array}$$

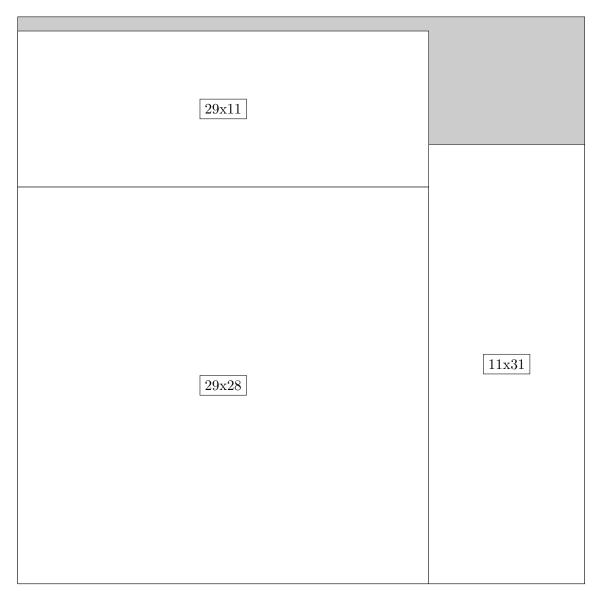


$$\le 35$$
 ,  $\le 29$  ,  $\ge 29$  ,  $\ge 20$  ,  $\ge$ 

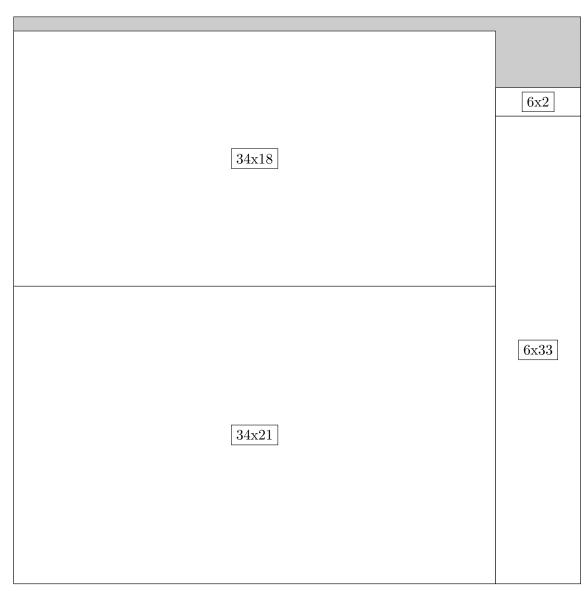
$$w = 28$$
,  $h = 8$ ,  $x = 4$ ,  $y = 29$ ,  $v = 224$ 

$$\le 5$$
 , h =  
28 , x =  
35 , y =  
0 , v =  
140

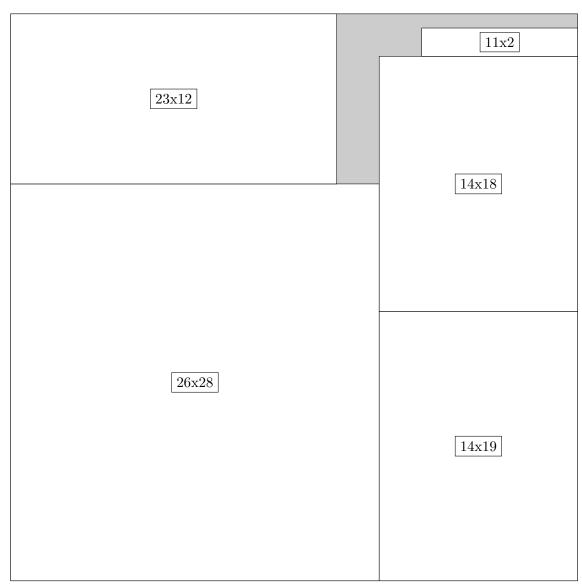
$$\mathbf{w}$$
 =4 , h =11 , x =0 , y =29 , v =44



$$\begin{array}{l} w = 29 \ , \ h = 28 \ , \ x = 0 \ , \ y = 0 \ , \ v = 812 \\ w = 11 \ , \ h = 31 \ , \ x = 29 \ , \ y = 0 \ , \ v = 341 \\ w = 29 \ , \ h = 11 \ , \ x = 0 \ , \ y = 28 \ , \ v = 319 \end{array}$$



 $\begin{array}{l} w = \!\! 34 \ , \ h = \!\! 21 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 714 \\ w = \!\! 34 \ , \ h = \!\! 18 \ , \ x = \!\! 0 \ , \ y = \!\! 21 \ , \ v = \!\! 612 \\ w = \!\! 6 \ , \ h = \!\! 33 \ , \ x = \!\! 34 \ , \ y = \!\! 0 \ , \ v = \!\! 198 \\ w = \!\! 6 \ , \ h = \!\! 2 \ , \ x = \!\! 34 \ , \ y = \!\! 33 \ , \ v = \!\! 12 \end{array}$ 



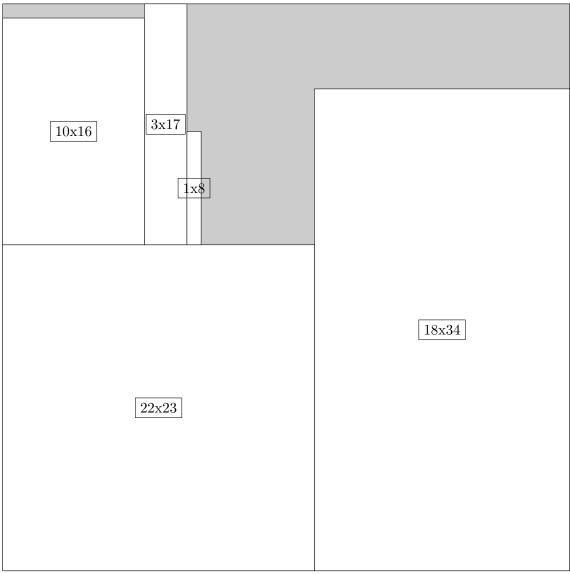
$$w = 26$$
,  $h = 28$ ,  $x = 0$ ,  $y = 0$ ,  $v = 728$ 

$$\le =23$$
 , h =12 , x =0 , y =28 , v =276

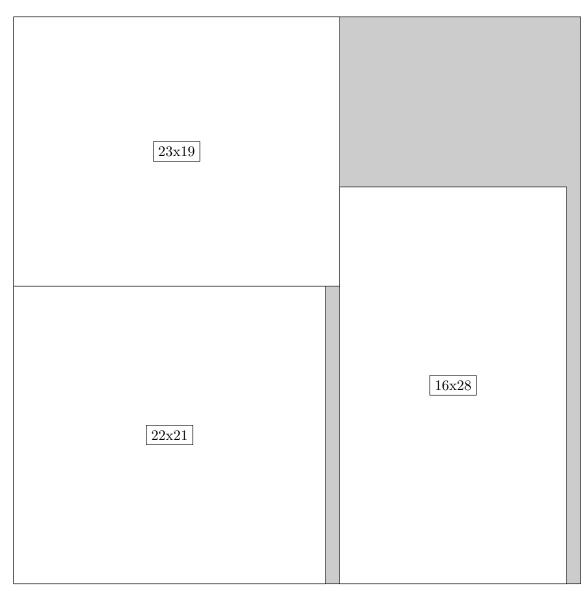
$$\le =14$$
 ,  $h$  =19 ,  $x$  =26 ,  $y$  =0 ,  $v$  =266

$$\le =14$$
 ,  $h$  =18 ,  $x$  =26 ,  $y$  =19 ,  $v$  =252

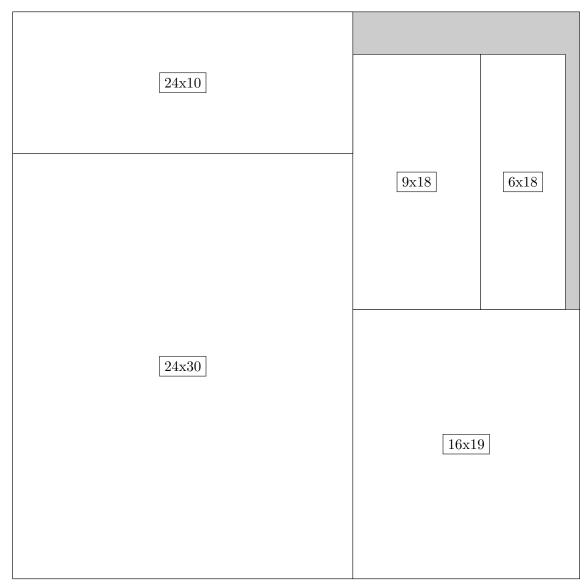
$$\le =11$$
 ,  $h$  =2 ,  $x$  =29 ,  $y$  =37 ,  $v$  =22



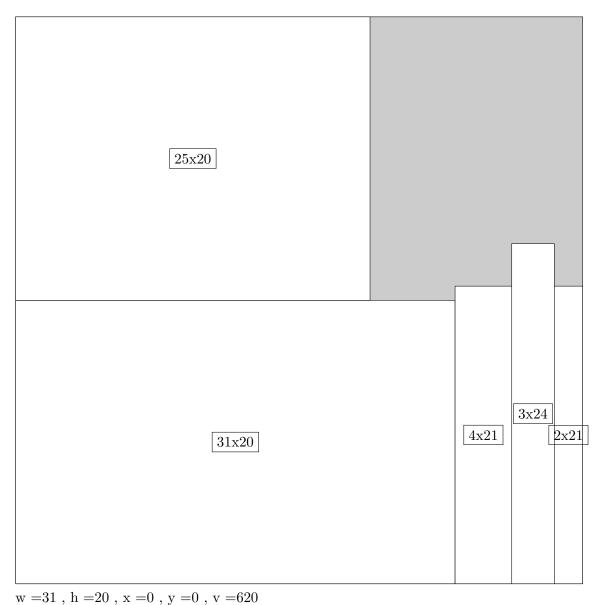
 $\begin{array}{l} w = \! 18 \; , \; h = \! 34 \; , \; x = \! 22 \; , \; y = \! 0 \; , \; v = \! 612 \\ w = \! 22 \; , \; h = \! 23 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 506 \\ w = \! 10 \; , \; h = \! 16 \; , \; x = \! 0 \; , \; y = \! 23 \; , \; v = \! 160 \\ w = \! 3 \; , \; h = \! 17 \; , \; x = \! 10 \; , \; y = \! 23 \; , \; v = \! 51 \\ w = \! 1 \; , \; h = \! 8 \; , \; x = \! 13 \; , \; y = \! 23 \; , \; v = \! 8 \end{array}$ 



$$\begin{array}{l} w = 22 \; , \; h = 21 \; , \; x = 0 \; , \; y = 0 \; , \; v = 462 \\ w = 23 \; , \; h = 19 \; , \; x = 0 \; , \; y = 21 \; , \; v = 437 \\ w = 16 \; , \; h = 28 \; , \; x = 23 \; , \; y = 0 \; , \; v = 448 \end{array}$$



 $\begin{array}{l} w = 24 \; , \; h = 30 \; , \; x = 0 \; , \; y = 0 \; , \; v = 720 \\ w = 16 \; , \; h = 19 \; , \; x = 24 \; , \; y = 0 \; , \; v = 304 \\ w = 9 \; , \; h = 18 \; , \; x = 24 \; , \; y = 19 \; , \; v = 162 \\ w = 6 \; , \; h = 18 \; , \; x = 33 \; , \; y = 19 \; , \; v = 108 \\ w = 24 \; , \; h = 10 \; , \; x = 0 \; , \; y = 30 \; , \; v = 240 \end{array}$ 



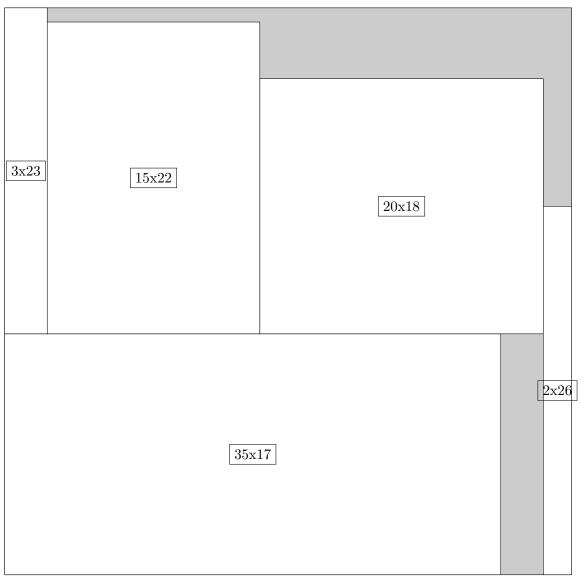
w =25, h =20, x =0, y =0, v =500 w =25, h =20, x =0, y =20, v =500 w =4, h =21, x =31, y =0, v =84

 $\mathbf{w}$  =3 , h =24 , x =35 , y =0 , v =72

w = 2, h = 21, x = 38, y = 0, v = 42

19x8	
20x31	19x31

$$\begin{array}{l} w = 20 \ , \ h = 31 \ , \ x = 0 \ , \ y = 0 \ , \ v = 620 \\ w = 19 \ , \ h = 31 \ , \ x = 20 \ , \ y = 0 \ , \ v = 589 \\ w = 19 \ , \ h = 8 \ , \ x = 0 \ , \ y = 31 \ , \ v = 152 \end{array}$$



w = 35, h = 17, x = 0, y = 0, v = 595

 $\le =20$  , h=18 , x=18 , y=17 , v=360

 $\le =15$  , h =22 , x =3 , y =17 , v =330

 $\le =3$  , h =23 , x =0 , y =17 , v =69

w = 2, h = 26, x = 38, y = 0, v = 52