$ClassName: \ Class\_03.2bp-44$ 

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

TypeNum: <u>98</u>
Num: <u>100</u>
OutS: <u>35200</u>
InS: <u>32327</u>
Rate: <u>0.918</u>
UB: <u>22</u>
LB0: <u>22</u>
LB: <u>22</u>

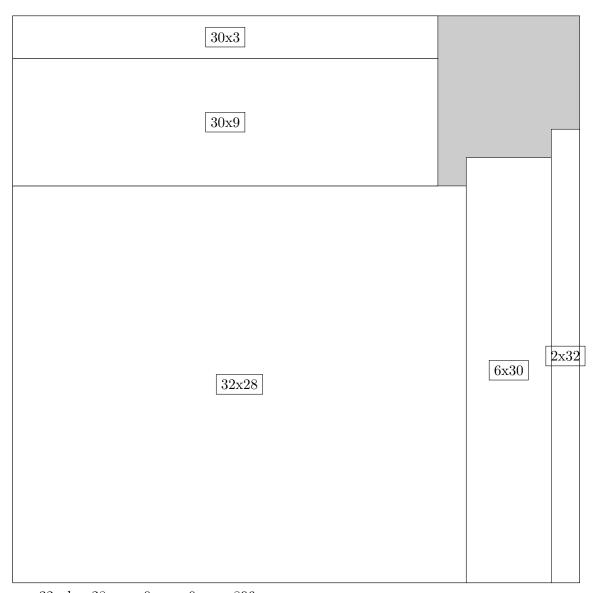
LBWithCut:  $\underline{22}$  NodeCut:  $\underline{0}$ 

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

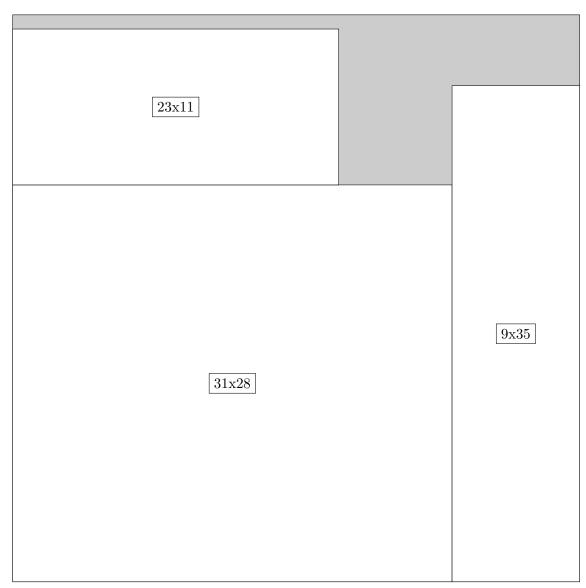
GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{22}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt: **true** 

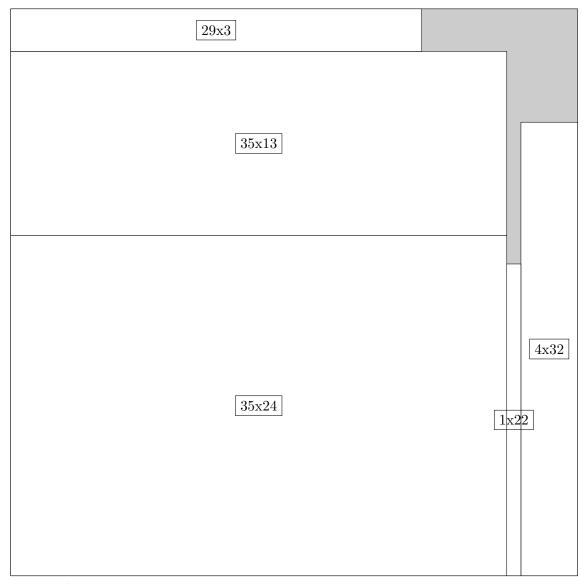
TimeOnInitSolution: 0.750 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.906 s



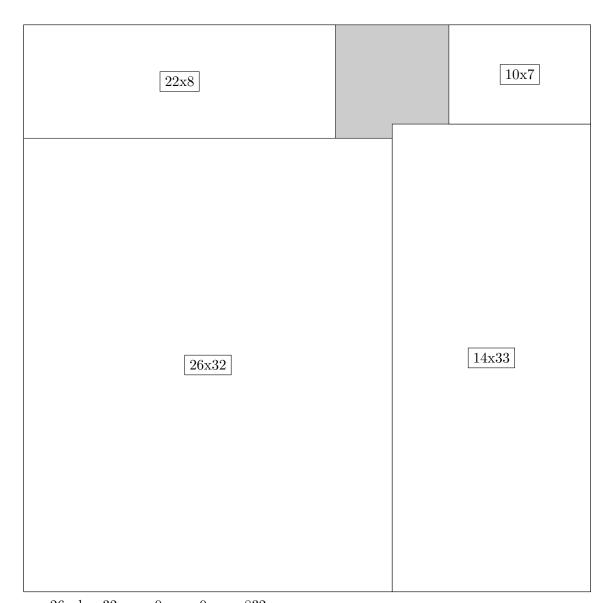
 $\begin{array}{l} w = & 32 \;,\; h = & 28 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 896 \\ w = & 30 \;,\; h = & 9 \;,\; x = & 0 \;,\; y = & 28 \;,\; v = & 270 \\ w = & 6 \;,\; h = & 30 \;,\; x = & 32 \;,\; y = & 0 \;,\; v = & 180 \\ w = & 30 \;,\; h = & 3 \;,\; x = & 0 \;,\; y = & 37 \;,\; v = & 90 \\ w = & 2 \;,\; h = & 32 \;,\; x = & 38 \;,\; y = & 0 \;,\; v = & 64 \end{array}$ 



 $\begin{array}{l} w = \! 31 \; , \; h = \! 28 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 868 \\ w = \! 9 \; , \; h = \! 35 \; , \; x = \! 31 \; , \; y = \! 0 \; , \; v = \! 315 \\ w = \! 23 \; , \; h = \! 11 \; , \; x = \! 0 \; , \; y = \! 28 \; , \; v = \! 253 \end{array}$ 



 $\begin{array}{l} w = \! 35 \; , \; h = \! 24 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 840 \\ w = \! 35 \; , \; h = \! 13 \; , \; x = \! 0 \; , \; y = \! 24 \; , \; v = \! 455 \\ w = \! 4 \; , \; h = \! 32 \; , \; x = \! 36 \; , \; y = \! 0 \; , \; v = \! 128 \\ w = \! 29 \; , \; h = \! 3 \; , \; x = \! 0 \; , \; y = \! 37 \; , \; v = \! 87 \\ w = \! 1 \; , \; h = \! 22 \; , \; x = \! 35 \; , \; y = \! 0 \; , \; v = \! 22 \end{array}$ 

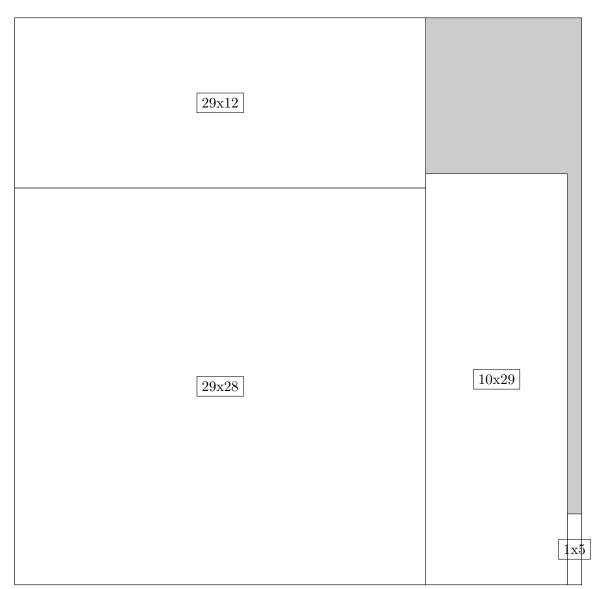


$$\begin{array}{l} w = 26 \ , \ h = 32 \ , \ x = 0 \ , \ y = 0 \ , \ v = 832 \\ w = 14 \ , \ h = 33 \ , \ x = 26 \ , \ y = 0 \ , \ v = 462 \\ \end{array}$$

$$\begin{array}{l} w = \! 22 \ , \ h = \! 8 \ , \ x = \! 0 \ , \ y = \! 32 \ , \ v = \! 176 \\ w = \! 10 \ , \ h = \! 7 \ , \ x = \! 30 \ , \ y = \! 33 \ , \ v = \! 70 \end{array}$$

	7
33x14	7x12
33x25	7x26

 $\begin{array}{l} w = 33 \; , \; h = 25 \; , \; x = 0 \; , \; y = 0 \; , \; v = 825 \\ w = 33 \; , \; h = 14 \; , \; x = 0 \; , \; y = 25 \; , \; v = 462 \\ w = 7 \; , \; h = 26 \; , \; x = 33 \; , \; y = 0 \; , \; v = 182 \\ w = 7 \; , \; h = 12 \; , \; x = 33 \; , \; y = 26 \; , \; v = 84 \end{array}$ 



$$\begin{array}{l} w=29 \ , \ h=28 \ , \ x=0 \ , \ y=0 \ , \ v=812 \\ w=29 \ , \ h=12 \ , \ x=0 \ , \ y=28 \ , \ v=348 \\ w=10 \ , \ h=29 \ , \ x=29 \ , \ y=0 \ , \ v=290 \\ w=1 \ , \ h=5 \ , \ x=39 \ , \ y=0 \ , \ v=5 \end{array}$$

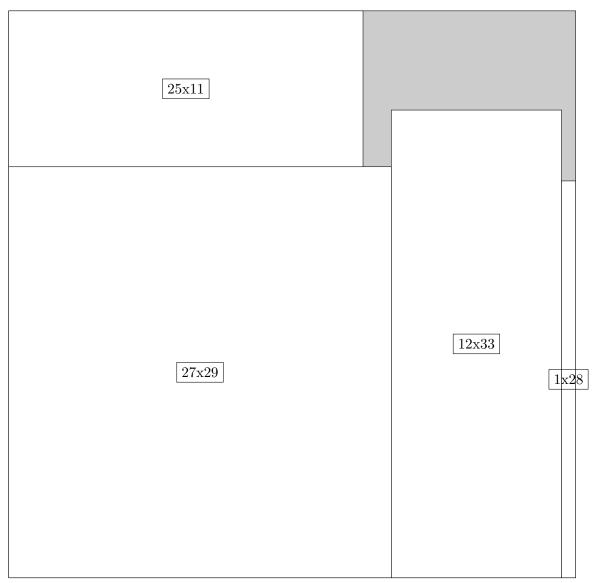
27x3	10x5
27x7	
27x30	13x35

$$\begin{array}{c} w = 27 \; , \; h = 30 \; , \; x = 0 \; , \; y = 0 \; , \; v = 810 \\ w = 13 \; , \; h = 35 \; , \; x = 27 \; , \; y = 0 \; , \; v = 455 \\ \end{array}$$

$$\le =27$$
 , h =7 , x =0 , y =30 , v =189

$$\le =27$$
 , h =3 , x =0 , y =37 , v =81

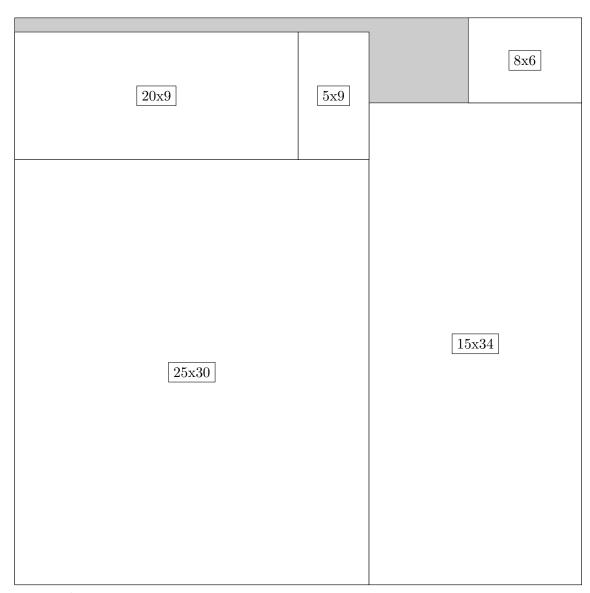
$$w = 10$$
,  $h = 5$ ,  $x = 27$ ,  $y = 35$ ,  $v = 50$ 



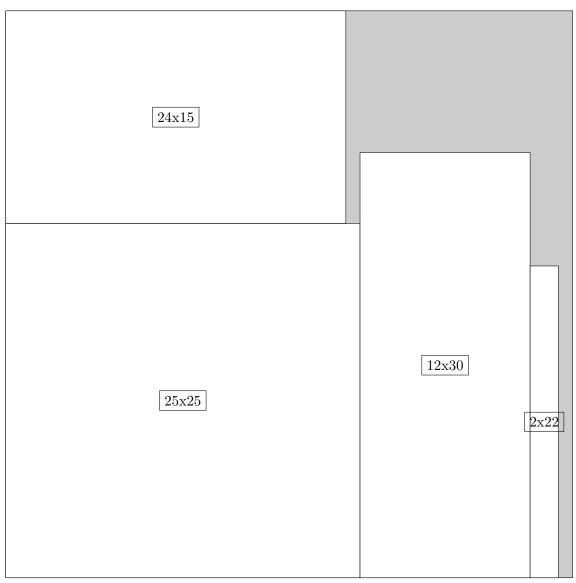
 $\begin{array}{l} w=27 \;,\; h=29 \;,\; x=0 \;,\; y=0 \;,\; v=783 \\ w=12 \;,\; h=33 \;,\; x=27 \;,\; y=0 \;,\; v=396 \\ w=25 \;,\; h=11 \;,\; x=0 \;,\; y=29 \;,\; v=275 \\ w=1 \;,\; h=28 \;,\; x=39 \;,\; y=0 \;,\; v=28 \end{array}$ 

17x7		15x5
	6x2	
[23x33]		17x35

$$\begin{array}{l} w=23 \ , \ h=33 \ , \ x=0 \ , \ y=0 \ , \ v=759 \\ w=17 \ , \ h=35 \ , \ x=23 \ , \ y=0 \ , \ v=595 \\ w=17 \ , \ h=7 \ , \ x=0 \ , \ y=33 \ , \ v=119 \\ w=15 \ , \ h=5 \ , \ x=25 \ , \ y=35 \ , \ v=75 \\ w=6 \ , \ h=2 \ , \ x=17 \ , \ y=33 \ , \ v=12 \end{array}$$



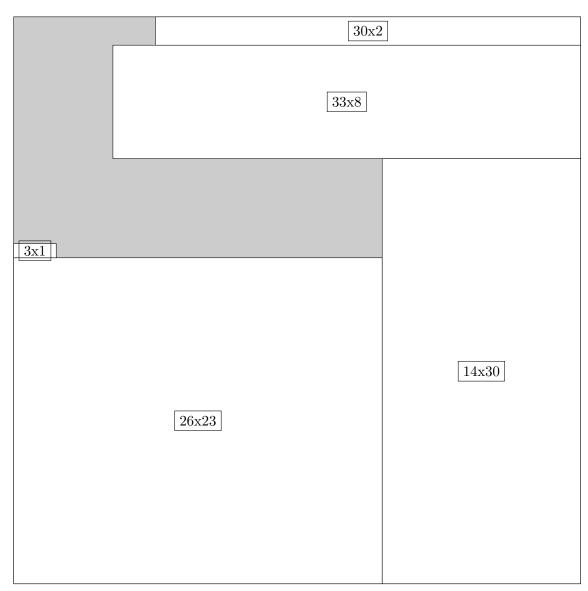
$$\begin{array}{l} w = 25 \ , \ h = 30 \ , \ x = 0 \ , \ y = 0 \ , \ v = 750 \\ w = 15 \ , \ h = 34 \ , \ x = 25 \ , \ y = 0 \ , \ v = 510 \\ w = 20 \ , \ h = 9 \ , \ x = 0 \ , \ y = 30 \ , \ v = 180 \\ w = 8 \ , \ h = 6 \ , \ x = 32 \ , \ y = 34 \ , \ v = 48 \\ w = 5 \ , \ h = 9 \ , \ x = 20 \ , \ y = 30 \ , \ v = 45 \end{array}$$



$$\begin{array}{l} w = 25 \ , \, h = 25 \ , \, x = 0 \ , \, y = 0 \ , \, v = 625 \\ w = 24 \ , \, h = 15 \ , \, x = 0 \ , \, y = 25 \ , \, v = 360 \\ w = 12 \ , \, h = 30 \ , \, x = 25 \ , \, y = 0 \ , \, v = 360 \\ w = 2 \ , \, h = 22 \ , \, x = 37 \ , \, y = 0 \ , \, v = 44 \end{array}$$

	33x8
21x29	19x32

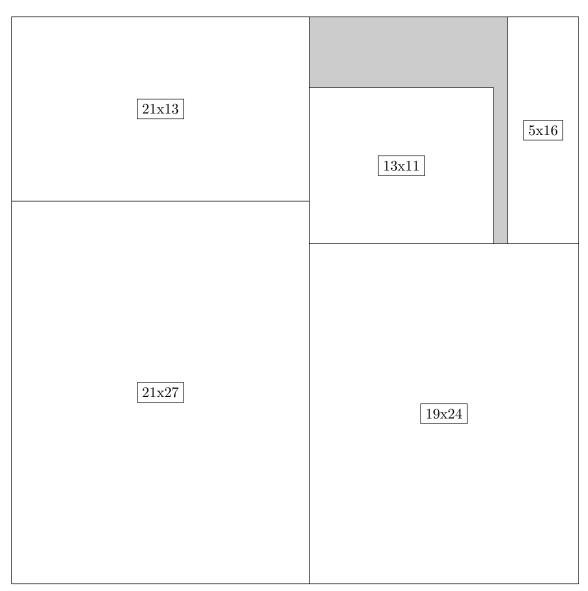
$$\begin{array}{l} w = 21 \ , \ h = 29 \ , \ x = 0 \ , \ y = 0 \ , \ v = 609 \\ w = 19 \ , \ h = 32 \ , \ x = 21 \ , \ y = 0 \ , \ v = 608 \\ w = 33 \ , \ h = 8 \ , \ x = 7 \ , \ y = 32 \ , \ v = 264 \end{array}$$



$$\begin{array}{l} w=26 \ , \ h=23 \ , \ x=0 \ , \ y=0 \ , \ v=598 \\ w=14 \ , \ h=30 \ , \ x=26 \ , \ y=0 \ , \ v=420 \\ w=33 \ , \ h=8 \ , \ x=7 \ , \ y=30 \ , \ v=264 \\ w=30 \ , \ h=2 \ , \ x=10 \ , \ y=38 \ , \ v=60 \\ w=3 \ , \ h=1 \ , \ x=0 \ , \ y=23 \ , \ v=3 \end{array}$$

	24x1	
34x11		6x11
21x28	19x28	

 $\begin{array}{l} w = 21 \ , \ h = 28 \ , \ x = 0 \ , \ y = 0 \ , \ v = 588 \\ w = 19 \ , \ h = 28 \ , \ x = 21 \ , \ y = 0 \ , \ v = 532 \\ w = 34 \ , \ h = 11 \ , \ x = 0 \ , \ y = 28 \ , \ v = 374 \\ w = 6 \ , \ h = 11 \ , \ x = 34 \ , \ y = 28 \ , \ v = 66 \\ w = 24 \ , \ h = 1 \ , \ x = 16 \ , \ y = 39 \ , \ v = 24 \end{array}$ 



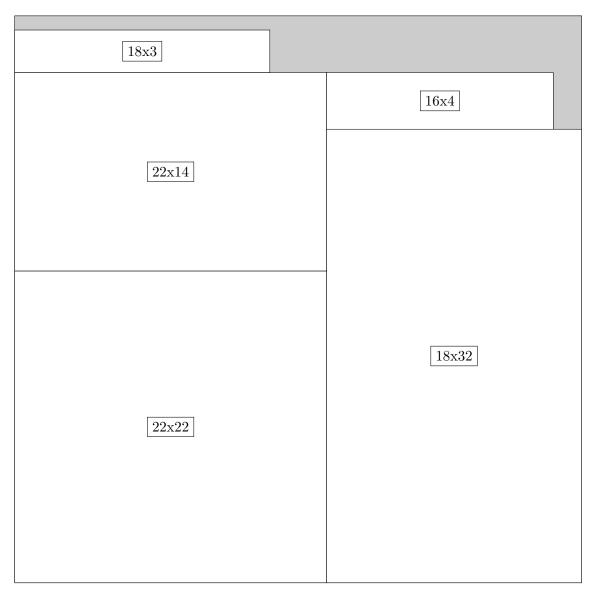
$$\mathbf{w}$$
 =21 , h =27 , x =0 , y =0 , v =567

$$\le =19$$
 , h =24 , x =21 , y =0 , v =456

$$\le =21$$
 ,  $h$  =13 ,  $x$  =0 ,  $y$  =27 ,  $v$  =273

$$\mathbf{w}$$
 =13 , h =11 , x =21 , y =24 , v =143

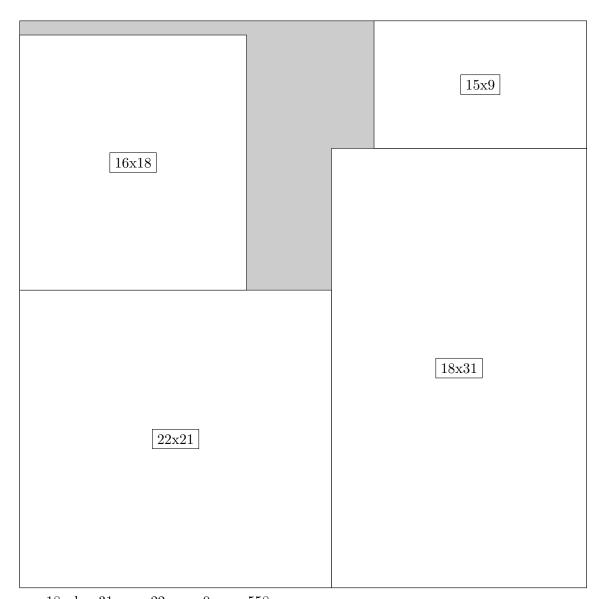
$$w$$
 =5 , h =16 , x =35 , y =24 , v =80



$$w$$
 =18 ,  $h$  =32 ,  $x$  =22 ,  $y$  =0 ,  $v$  =576

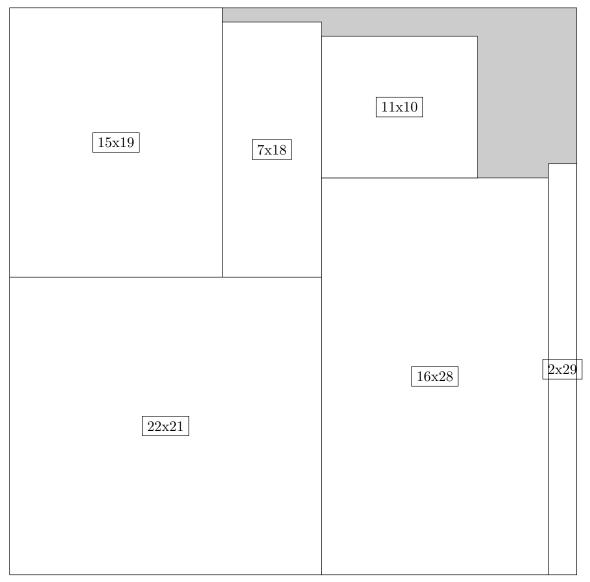
$$\begin{array}{l} w = 22 \; , \; h = 22 \; , \; x = 0 \; , \; y = 0 \; , \; v = 484 \\ w = 22 \; , \; h = 14 \; , \; x = 0 \; , \; y = 22 \; , \; v = 308 \end{array}$$

$$\mathbf{w}$$
 =16 , h =4 , x =22 , y =32 , v =64

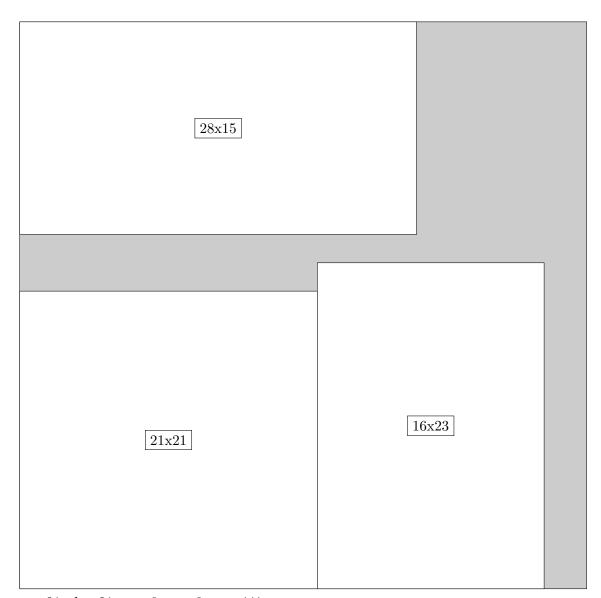


$$\begin{array}{l} w = 18 \ , \ h = \!\! 31 \ , \ x = \!\! 22 \ , \ y = \!\! 0 \ , \ v = \!\! 558 \\ w = \!\! 22 \ , \ h = \!\! 21 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 462 \\ w = \!\! 16 \ , \ h = \!\! 18 \ , \ x = \!\! 0 \ , \ y = \!\! 21 \ , \ v = \!\! 288 \end{array}$$

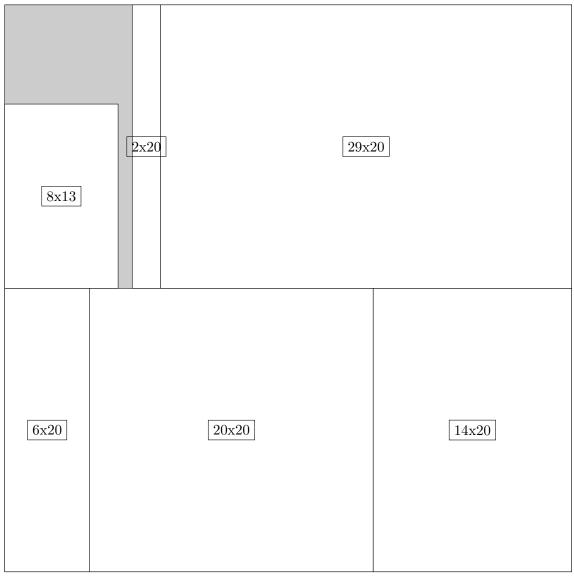
$$\le =15$$
 , h =9 , x =25 , y =31 , v =135



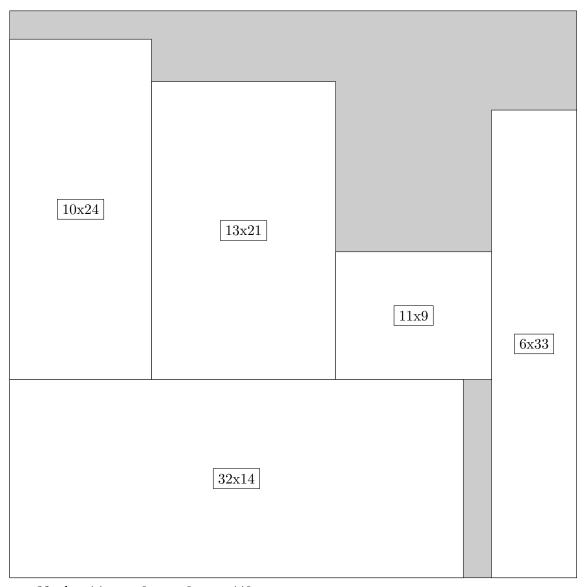
$$\begin{array}{l} w = 22 \; , \; h = 21 \; , \; x = 0 \; , \; y = 0 \; , \; v = 462 \\ w = 16 \; , \; h = 28 \; , \; x = 22 \; , \; y = 0 \; , \; v = 448 \\ w = 15 \; , \; h = 19 \; , \; x = 0 \; , \; y = 21 \; , \; v = 285 \\ w = 7 \; , \; h = 18 \; , \; x = 15 \; , \; y = 21 \; , \; v = 126 \\ w = 11 \; , \; h = 10 \; , \; x = 22 \; , \; y = 28 \; , \; v = 110 \\ w = 2 \; , \; h = 29 \; , \; x = 38 \; , \; y = 0 \; , \; v = 58 \end{array}$$



$$\begin{array}{l} w = 21 \; , \; h = 21 \; , \; x = 0 \; , \; y = 0 \; , \; v = 441 \\ w = 28 \; , \; h = 15 \; , \; x = 0 \; , \; y = 25 \; , \; v = 420 \\ w = 16 \; , \; h = 23 \; , \; x = 21 \; , \; y = 0 \; , \; v = 368 \end{array}$$



 $\begin{array}{l} w=6\;,\; h=20\;,\; x=0\;,\; y=0\;,\; v=120\\ w=20\;,\; h=20\;,\; x=6\;,\; y=0\;,\; v=400\\ w=14\;,\; h=20\;,\; x=26\;,\; y=0\;,\; v=280\\ w=29\;,\; h=20\;,\; x=11\;,\; y=20\;,\; v=580\\ w=8\;,\; h=13\;,\; x=0\;,\; y=20\;,\; v=104\\ w=2\;,\; h=20\;,\; x=9\;,\; y=20\;,\; v=40 \end{array}$ 

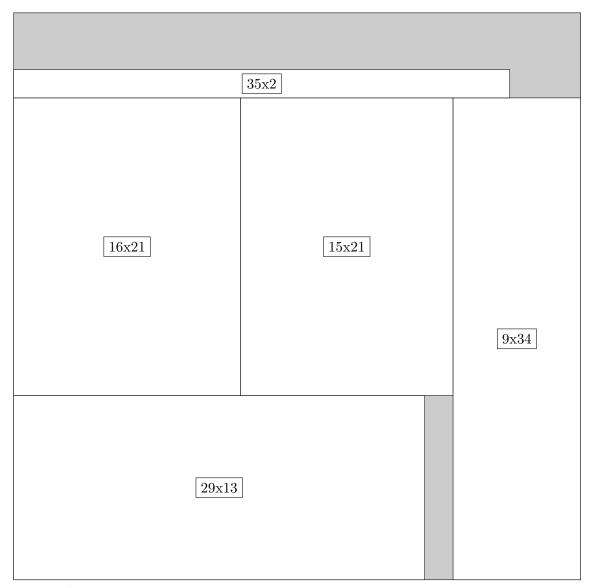


$$\begin{array}{l} w = & 32 \ , \ h = & 14 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 448 \\ w = & 13 \ , \ h = & 21 \ , \ x = & 10 \ , \ y = & 14 \ , \ v = & 273 \end{array}$$

$$w = 10$$
 ,  $h = 24$  ,  $x = 0$  ,  $y = 14$  ,  $v = 240$ 

$$\mathbf{w}$$
 =6 , h =33 , x =34 , y =0 , v =198

$$w=\!11$$
 ,  $h=\!9$  ,  $x=\!23$  ,  $y=\!14$  ,  $v=\!99$ 



$$\le =29$$
 , h =13 , x =0 , y =0 , v =377

$$\le =16$$
 , h =21 , x =0 , y =13 , v =336

$$\le =15$$
 , h =21 , x =16 , y =13 , v =315

$$\le =9$$
 , h =34 , x =31 , y =0 , v =306

$$w = 35$$
,  $h = 2$ ,  $x = 0$ ,  $y = 34$ ,  $v = 70$