$ClassName: \ Class_03.2bp\text{-}48$

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

TypeNum: <u>98</u>
Num: <u>100</u>
OutS: <u>35200</u>
InS: <u>31501</u>
Rate: <u>0.895</u>
UB: <u>22</u>
LB0: <u>22</u>
LB: <u>22</u>

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

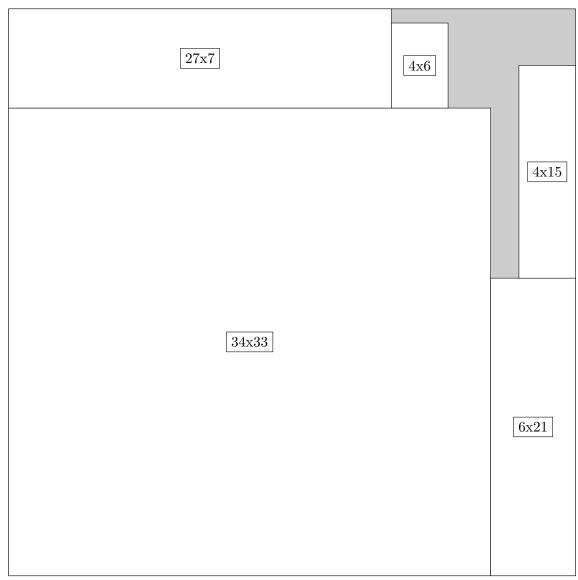
ExtendedNodeCnt: $\underline{\mathbf{1}}$

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

TimeOnInitSolution: $\underline{120.020 \text{ s}}$

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 120.145 s



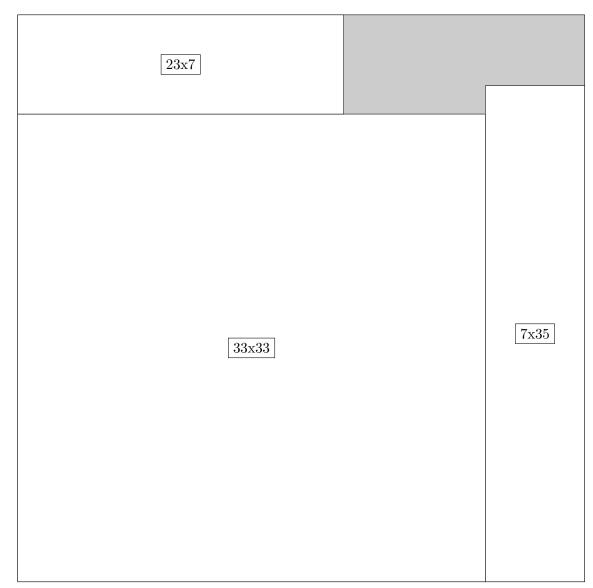
 \mathbf{w} =34 , h =33 , x =0 , y =0 , v =1122

 $\le =27$, h =7 , x =0 , y =33 , v =189

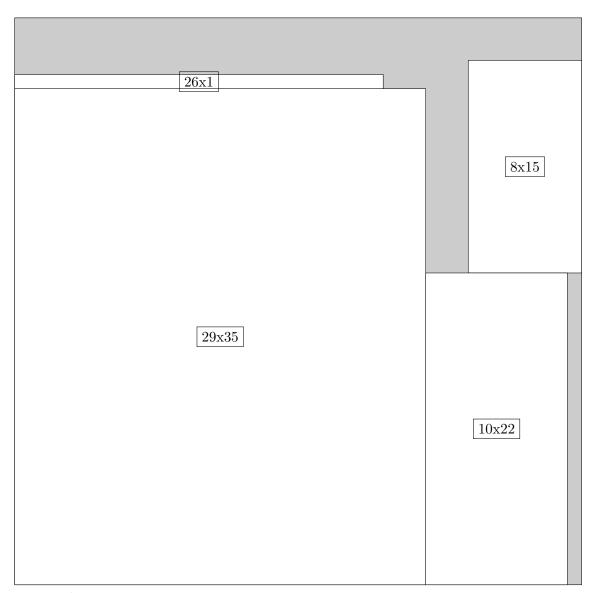
 \mathbf{w} =6 , h =21 , x =34 , y =0 , v =126

 \mathbf{w} =4 , h =15 , x =36 , y =21 , v =60

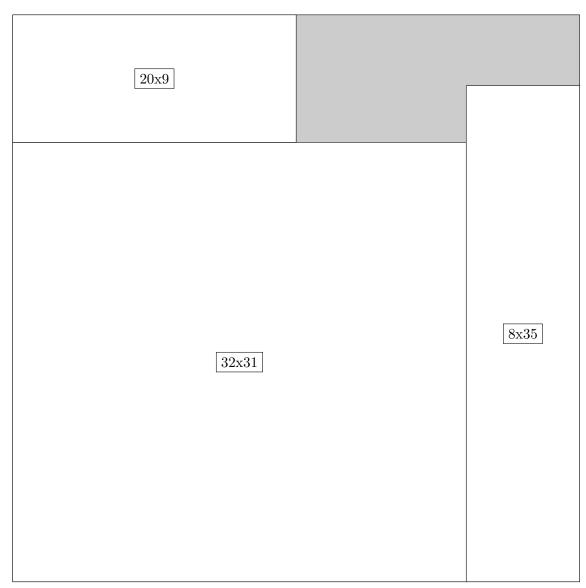
w = 4, h = 6, x = 27, y = 33, v = 24



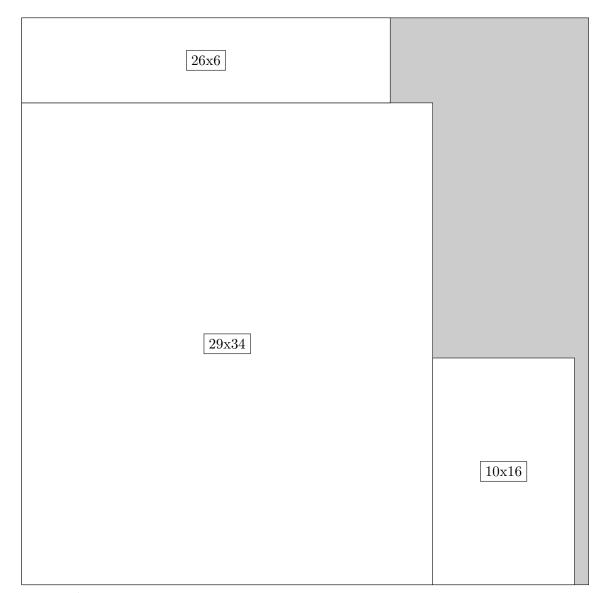
$$\begin{array}{l} w = \! 33 \; , \; h = \! 33 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 1089 \\ w = \! 7 \; , \; h = \! 35 \; , \; x = \! 33 \; , \; y = \! 0 \; , \; v = \! 245 \\ w = \! 23 \; , \; h = \! 7 \; , \; x = \! 0 \; , \; y = \! 33 \; , \; v = \! 161 \end{array}$$



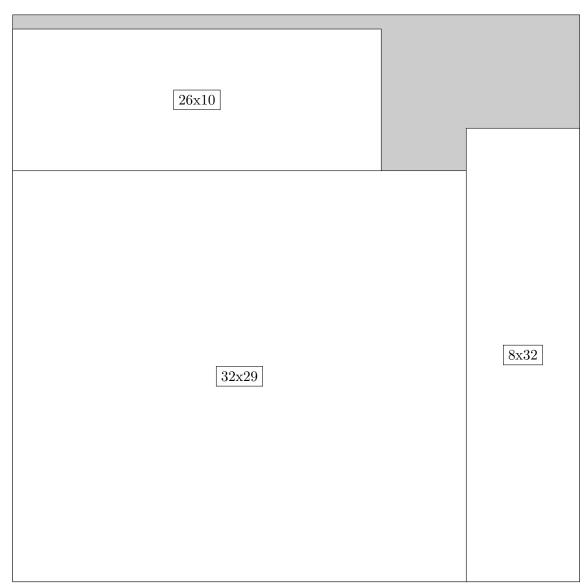
 $\begin{array}{l} w=29 \ , \ h=35 \ , \ x=0 \ , \ y=0 \ , \ v=1015 \\ w=8 \ , \ h=15 \ , \ x=32 \ , \ y=22 \ , \ v=120 \\ w=10 \ , \ h=22 \ , \ x=29 \ , \ y=0 \ , \ v=220 \\ w=26 \ , \ h=1 \ , \ x=0 \ , \ y=35 \ , \ v=26 \end{array}$



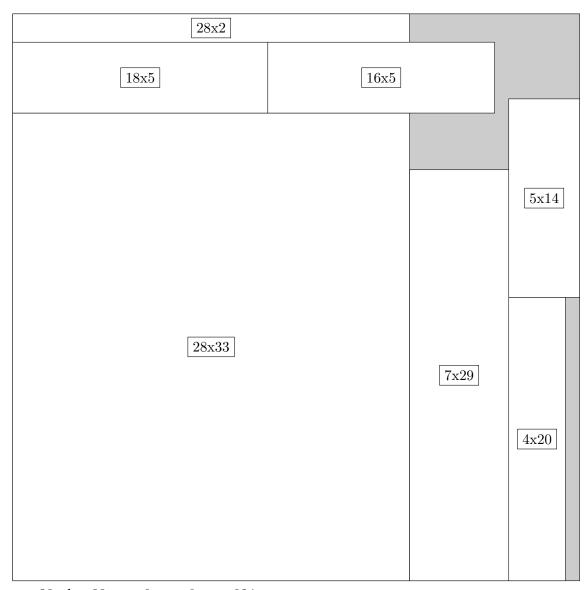
 $\begin{array}{l} w = 32 \; , \; h = 31 \; , \; x = 0 \; , \; y = 0 \; , \; v = 992 \\ w = 8 \; , \; h = 35 \; , \; x = 32 \; , \; y = 0 \; , \; v = 280 \\ w = 20 \; , \; h = 9 \; , \; x = 0 \; , \; y = 31 \; , \; v = 180 \end{array}$



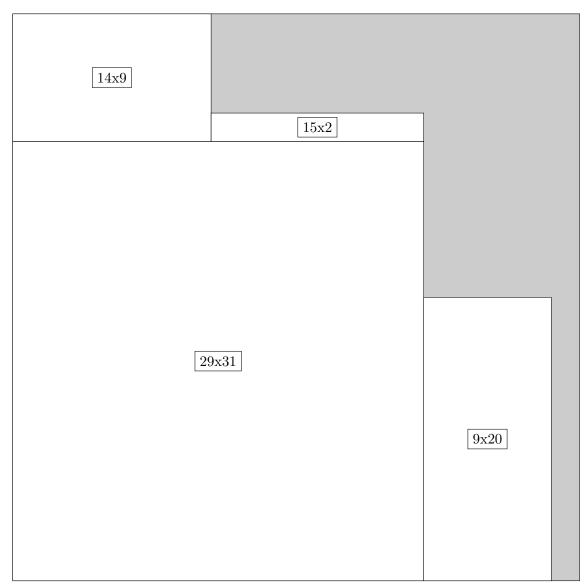
$$\begin{array}{l} w = 29 \ , \ h = 34 \ , \ x = 0 \ , \ y = 0 \ , \ v = 986 \\ w = 10 \ , \ h = 16 \ , \ x = 29 \ , \ y = 0 \ , \ v = 160 \\ w = 26 \ , \ h = 6 \ , \ x = 0 \ , \ y = 34 \ , \ v = 156 \end{array}$$



$$\begin{array}{l} w = & 32 \;,\; h = & 29 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 928 \\ w = & 26 \;,\; h = & 10 \;,\; x = & 0 \;,\; y = & 29 \;,\; v = & 260 \\ w = & ,\; h = & 32 \;,\; x = & 32 \;,\; y = & 0 \;,\; v = & 256 \end{array}$$



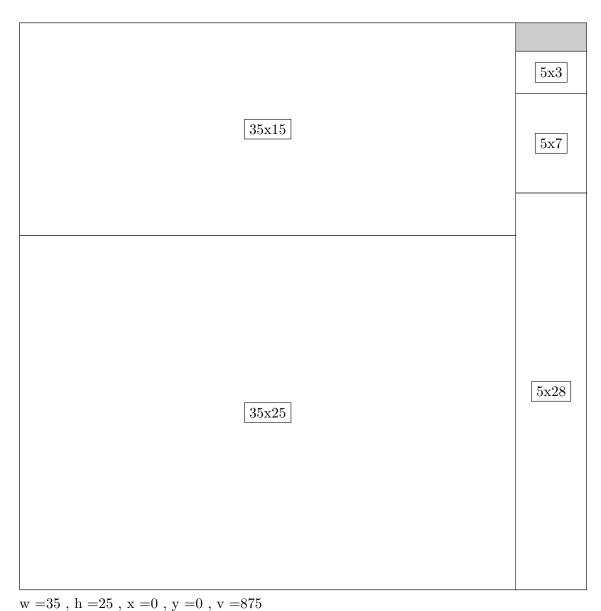
 $\begin{array}{l} w=28\;,\; h=33\;,\; x=0\;,\; y=0\;,\; v=924\\ w=7\;,\; h=29\;,\; x=28\;,\; y=0\;,\; v=203\\ w=18\;,\; h=5\;,\; x=0\;,\; y=33\;,\; v=90\\ w=16\;,\; h=5\;,\; x=18\;,\; y=33\;,\; v=80\\ w=4\;,\; h=20\;,\; x=35\;,\; y=0\;,\; v=80\\ w=5\;,\; h=14\;,\; x=35\;,\; y=20\;,\; v=70\\ w=28\;,\; h=2\;,\; x=0\;,\; y=38\;,\; v=56 \end{array}$



$$\begin{array}{l} w = 29 \ , \ h = 31 \ , \ x = 0 \ , \ y = 0 \ , \ v = 899 \\ w = 9 \ , \ h = 20 \ , \ x = 29 \ , \ y = 0 \ , \ v = 180 \\ w = 14 \ , \ h = 9 \ , \ x = 0 \ , \ y = 31 \ , \ v = 126 \\ w = 15 \ , \ h = 2 \ , \ x = 14 \ , \ y = 31 \ , \ v = 30 \end{array}$$

2x2 5x9	17x12	[18x12]
	32x28	8x28

$$\begin{array}{l} w = 32 \;, \; h = 28 \;, \; x = 0 \;, \; y = 0 \;, \; v = 896 \\ w = 8 \;, \; h = 28 \;, \; x = 32 \;, \; y = 0 \;, \; v = 224 \\ w = 18 \;, \; h = 12 \;, \; x = 22 \;, \; y = 28 \;, \; v = 216 \\ w = 17 \;, \; h = 12 \;, \; x = 5 \;, \; y = 28 \;, \; v = 204 \\ w = 5 \;, \; h = 9 \;, \; x = 0 \;, \; y = 28 \;, \; v = 45 \\ w = 2 \;, \; h = 2 \;, \; x = 0 \;, \; y = 37 \;, \; v = 4 \end{array}$$



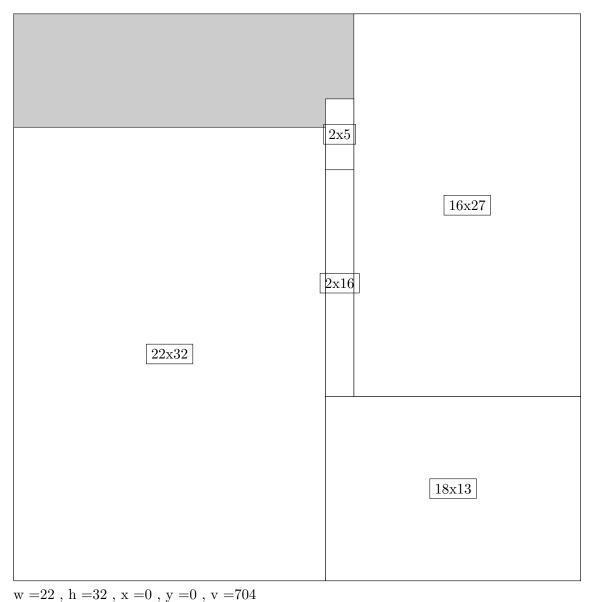
 $w=\!5$, $h=\!3$, $x=\!35$, $y=\!35$, $v=\!15$

22x5	[17x6]
22x33	[18x34]

$$\begin{array}{l} w = 22 \ , \ h = \!\! 33 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 726 \\ w = \!\! 18 \ , \ h = \!\! 34 \ , \ x = \!\! 22 \ , \ y = \!\! 0 \ , \ v = \!\! 612 \end{array}$$

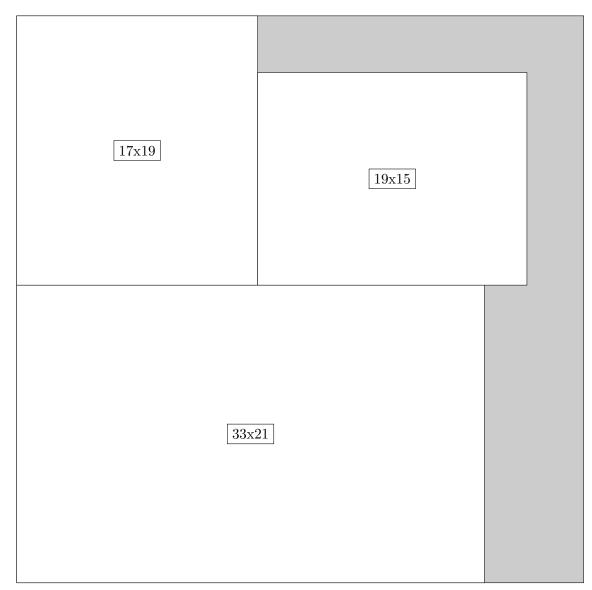
$$\le =22$$
 , h =5 , x =0 , y =33 , v =110

$$w=\!17$$
 , $h=\!6$, $x=\!23$, $y=\!34$, $v=\!102$



w =22, h =32, x =0, y =0, v =704 w =16, h =27, x =24, y =13, v =432 w =18, h =13, x =22, y =0, v =234 w =2, h =16, x =22, y =13, v =32

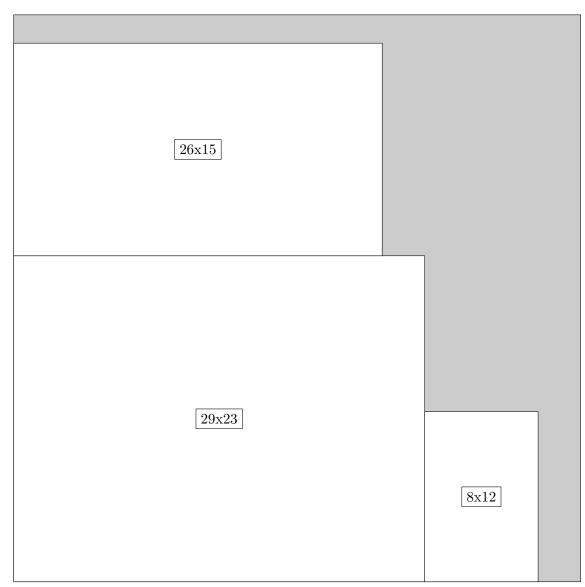
 $\mathbf{w}=2$, $\mathbf{h}=5$, $\mathbf{x}=22$, $\mathbf{y}=29$, $\mathbf{v}=10$



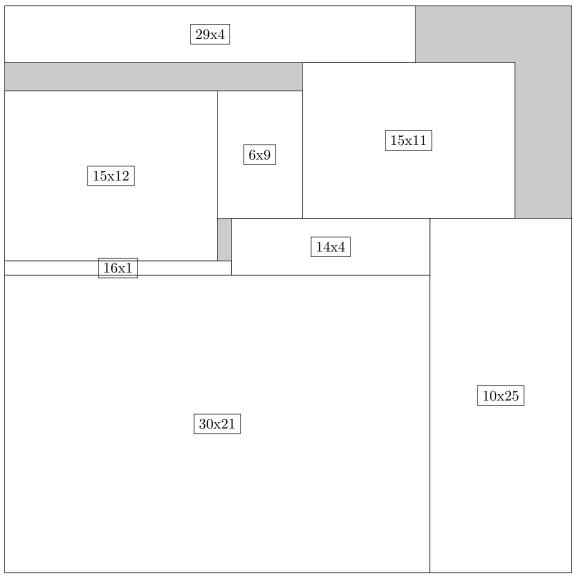
$$w = 33$$
, $h = 21$, $x = 0$, $y = 0$, $v = 693$

$$\le =17$$
 , h =19 , x =0 , y =21 , v =323

$$\le =19$$
 , $h=15$, $x=17$, $y=21$, $v=285$



$$\begin{array}{l} w = 29 \ , \ h = 23 \ , \ x = 0 \ , \ y = 0 \ , \ v = 667 \\ w = 26 \ , \ h = 15 \ , \ x = 0 \ , \ y = 23 \ , \ v = 390 \\ w = 8 \ , \ h = 12 \ , \ x = 29 \ , \ y = 0 \ , \ v = 96 \end{array}$$



$$w = 30$$
, $h = 21$, $x = 0$, $y = 0$, $v = 630$

$$\le =15$$
 , $h=12$, $x=0$, $y=22$, $v=180$

$$w=\!15$$
 , $h=\!11$, $x=\!21$, $y=\!25$, $v=\!165$

$$w = 10$$
, $h = 25$, $x = 30$, $y = 0$, $v = 250$

$$\le =29$$
 , h =4 , x =0 , y =36 , v =116

$$w$$
 =14 , h =4 , x =16 , y =21 , v =56

$$w$$
 =6 , h =9 , x =15 , y =25 , v =54

$$\mathbf{w}$$
 =16 , h =1 , x =0 , y =21 , v =16

	[31x4]	
21x7		
	$\boxed{19\mathrm{x}16}$	
21x29		
	19x20	

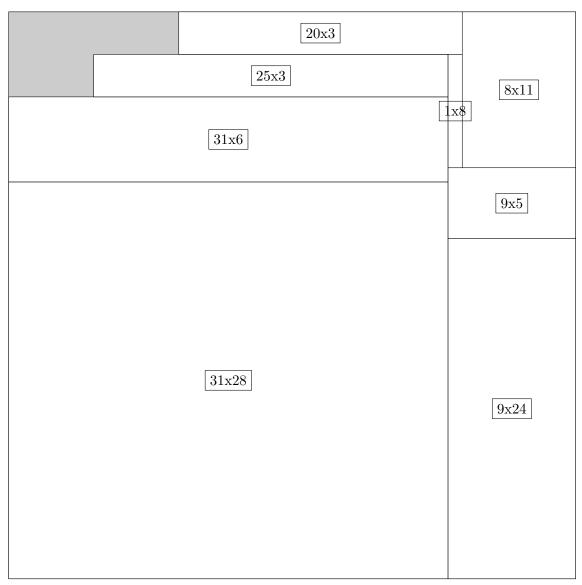
$$w = 21$$
, $h = 29$, $x = 0$, $y = 0$, $v = 609$

$$\le =19$$
 , h =20 , x =21 , y =0 , v =380

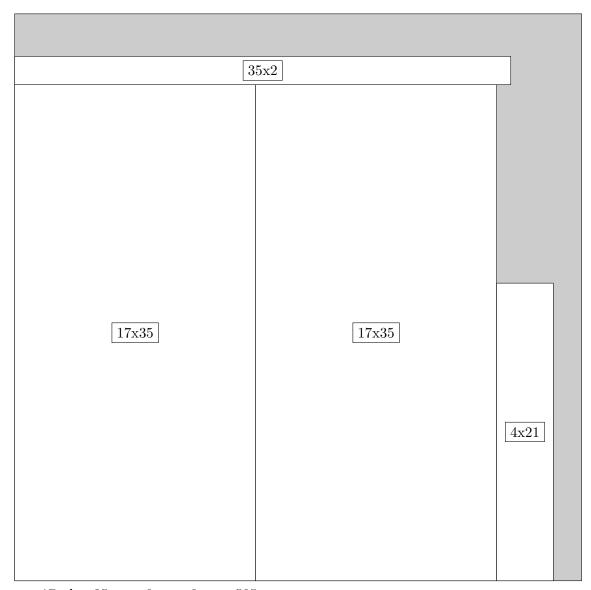
$$\le =19$$
 , h =16 , x =21 , y =20 , v =304

$$\le =21$$
 , h =7 , x =0 , y =29 , v =147

$$\le =31$$
 , h =4 , x =9 , y =36 , v =124



 $\begin{array}{l} w = & 31 \;,\; h = & 28 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 868 \\ w = & 9 \;,\; h = & 24 \;,\; x = & 31 \;,\; y = & 0 \;,\; v = & 216 \\ w = & 31 \;,\; h = & 6 \;,\; x = & 0 \;,\; y = & 28 \;,\; v = & 186 \\ w = & 8 \;,\; h = & 11 \;,\; x = & 32 \;,\; y = & 29 \;,\; v = & 88 \\ w = & 25 \;,\; h = & 3 \;,\; x = & 6 \;,\; y = & 34 \;,\; v = & 75 \\ w = & 20 \;,\; h = & 3 \;,\; x = & 12 \;,\; y = & 37 \;,\; v = & 60 \\ w = & 9 \;,\; h = & 5 \;,\; x = & 31 \;,\; y = & 24 \;,\; v = & 45 \\ w = & 1 \;,\; h = & 8 \;,\; x = & 31 \;,\; y = & 29 \;,\; v = & 8 \end{array}$



 $\begin{array}{l} w = \! 17 \; , \; h = \! 35 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 595 \\ w = \! 17 \; , \; h = \! 35 \; , \; x = \! 17 \; , \; y = \! 0 \; , \; v = \! 595 \\ w = \! 4 \; , \; h = \! 21 \; , \; x = \! 34 \; , \; y = \! 0 \; , \; v = \! 84 \\ w = \! 35 \; , \; h = \! 2 \; , \; x = \! 0 \; , \; y = \! 35 \; , \; v = \! 70 \end{array}$

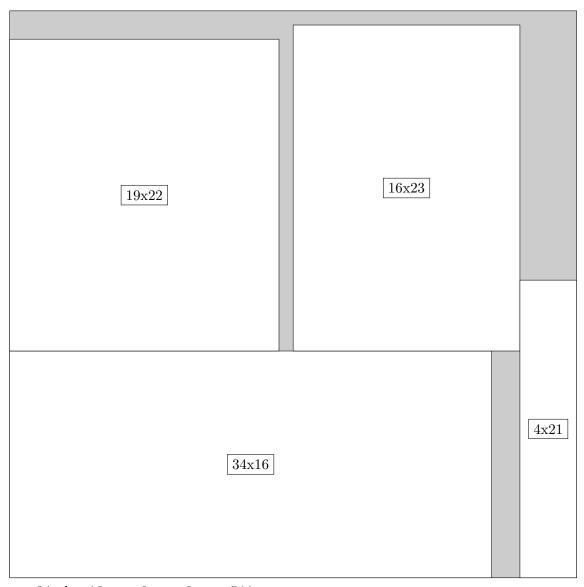
15x10	20x18
20x29	20x22

$$\le =20$$
 , $h=29$, $x=0$, $y=0$, $v=580$

$$\le =20$$
 , h =22 , x =20 , y =0 , v =440

$$\le =20$$
 , h =18 , x =20 , y =22 , v =360

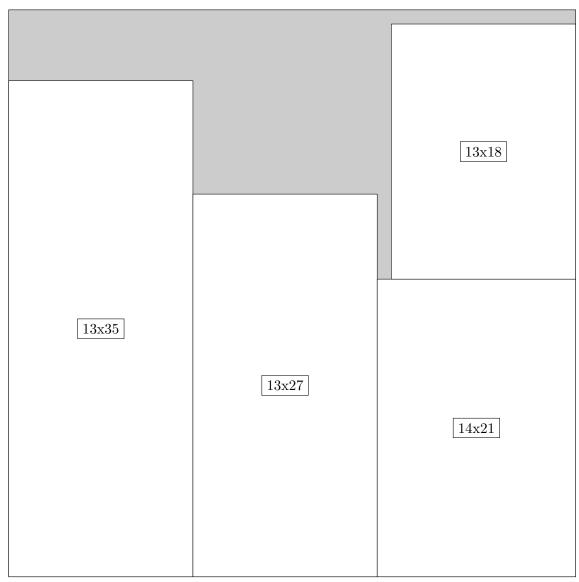
$$\le =15$$
 , h =10 , x =0 , y =29 , v =150



$$\begin{array}{c} w = \!\! 34 \; , \; h = \!\! 16 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 544 \\ w = \!\! 19 \; , \; h = \!\! 22 \; , \; x = \!\! 0 \; , \; y = \!\! 16 \; , \; v = \!\! 418 \\ \end{array}$$

$$\le =16$$
 , h =23 , x =20 , y =16 , v =368

$$\mathbf{w}$$
 =4 , h =21 , x =36 , y =0 , v =84

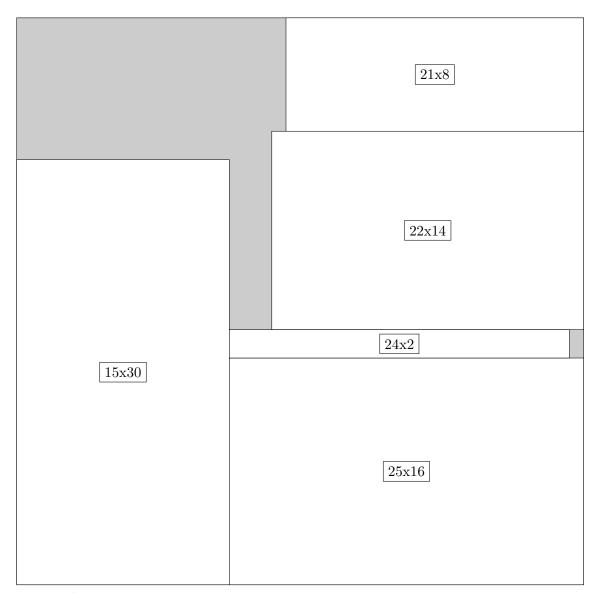


$$\le =13$$
 , $= 35$, $= 0$, $y = 0$, $v = 455$

$$\le =13$$
 , h =27 , x =13 , y =0 , v =351

$$\le =14$$
 , h =21 , x =26 , y =0 , v =294

$$\le =13$$
 , h =18 , x =27 , y =21 , v =234



$$\le =15$$
 , h =30 , x =0 , y =0 , v =450

$$\le =25$$
 , h =16 , x =15 , y =0 , v =400

$$\le =22$$
 , $h=14$, $x=18$, $y=18$, $v=308$

$$\le =21$$
 , h =8 , x =19 , y =32 , v =168

$$\le =24$$
 , h =2 , x =15 , y =16 , v =48