$ClassName: \ Class_03.2bp\text{-}43$

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

TypeNum: <u>96</u>
Num: <u>100</u>
OutS: <u>32000</u>
InS: <u>30525</u>
Rate: <u>0.954</u>
UB: <u>20</u>
LB0: <u>20</u>
LB: <u>20</u>

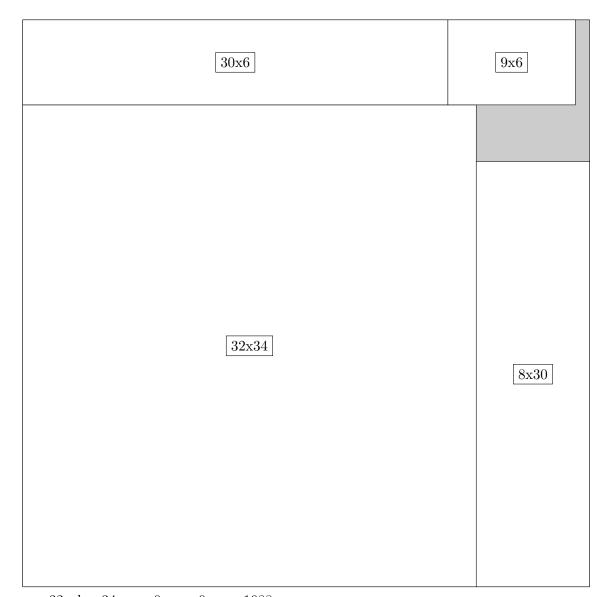
LBWithCut: $\underline{20}$ NodeCut: $\underline{0}$

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

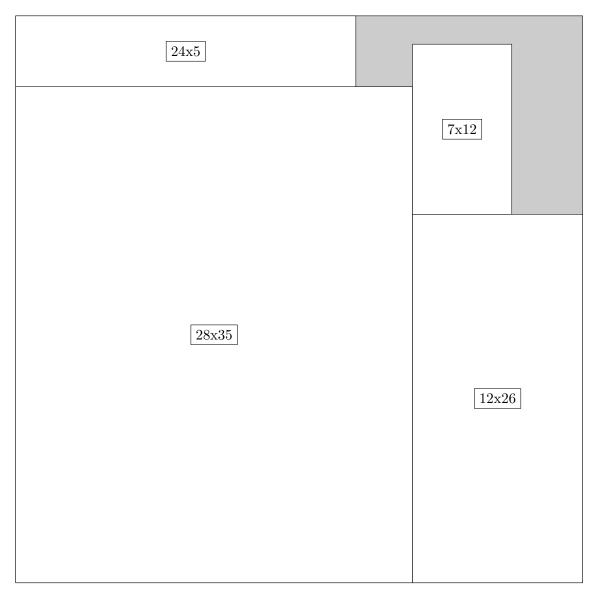
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{20}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

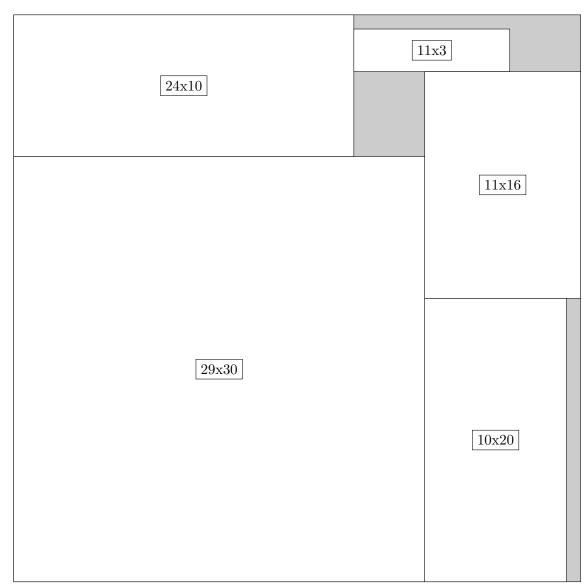
 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.280 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.110 \ s} \\ {\rm TotalTime:} \ \underline{0.468 \ s} \end{array}$



$$\begin{array}{l} w = \!\! 30 \ , \ h = \!\! 6 \ , \ x = \!\! 0 \ , \ y = \!\! 34 \ , \ v = \!\! 180 \\ w = \!\! 9 \ , \ h = \!\! 6 \ , \ x = \!\! 30 \ , \ y = \!\! 34 \ , \ v = \!\! 54 \end{array}$$



$$\begin{array}{l} w=28 \ , \ h=35 \ , \ x=0 \ , \ y=0 \ , \ v=980 \\ w=12 \ , \ h=26 \ , \ x=28 \ , \ y=0 \ , \ v=312 \\ w=24 \ , \ h=5 \ , \ x=0 \ , \ y=35 \ , \ v=120 \\ w=7 \ , \ h=12 \ , \ x=28 \ , \ y=26 \ , \ v=84 \end{array}$$



$$w = 29$$
, $h = 30$, $x = 0$, $y = 0$, $v = 870$

$$\le =24$$
 , $h=10$, $x=0$, $y=30$, $v=240$

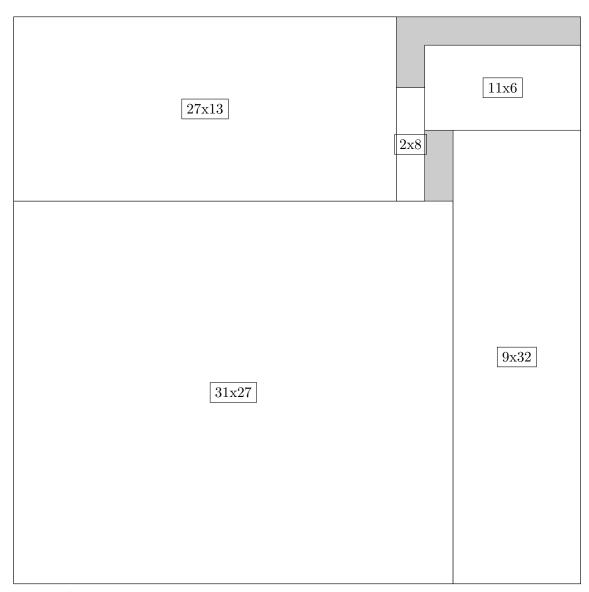
$$\le =10$$
 , h =20 , x =29 , y =0 , v =200

$$\mathbf{w}$$
 =11 , h =16 , x =29 , y =20 , v =176

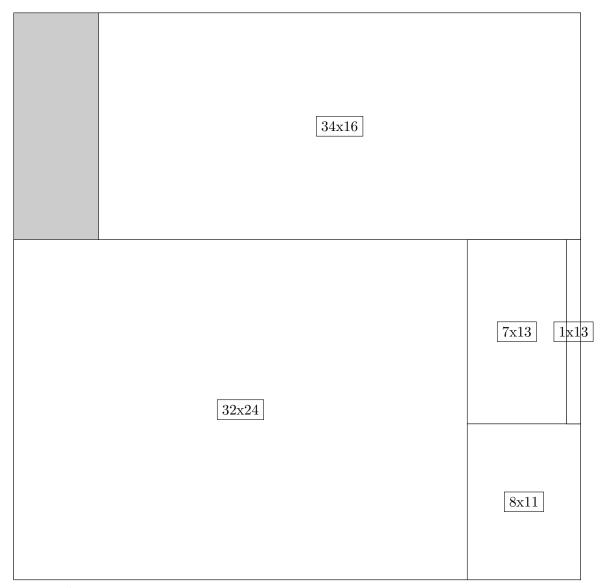
$$w = 11$$
, $h = 3$, $x = 24$, $y = 36$, $v = 33$

[10x9]		27x1 28x8	
	28x31		12x31

$$\begin{array}{l} w = 28 \ , \ h = 31 \ , \ x = 0 \ , \ y = 0 \ , \ v = 868 \\ w = 12 \ , \ h = 31 \ , \ x = 28 \ , \ y = 0 \ , \ v = 372 \\ w = 28 \ , \ h = 8 \ , \ x = 10 \ , \ y = 31 \ , \ v = 224 \\ w = 10 \ , \ h = 9 \ , \ x = 0 \ , \ y = 31 \ , \ v = 90 \\ w = 27 \ , \ h = 1 \ , \ x = 10 \ , \ y = 39 \ , \ v = 27 \end{array}$$



 $\begin{array}{l} w = 31 \; , \; h = 27 \; , \; x = 0 \; , \; y = 0 \; , \; v = 837 \\ w = 27 \; , \; h = 13 \; , \; x = 0 \; , \; y = 27 \; , \; v = 351 \\ w = 9 \; , \; h = 32 \; , \; x = 31 \; , \; y = 0 \; , \; v = 288 \\ w = 11 \; , \; h = 6 \; , \; x = 29 \; , \; y = 32 \; , \; v = 66 \\ w = 2 \; , \; h = 8 \; , \; x = 27 \; , \; y = 27 \; , \; v = 16 \end{array}$



 $\begin{array}{l} w = & 32 \;,\; h = & 24 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 768 \\ w = & 34 \;,\; h = & 16 \;,\; x = & 6 \;,\; y = & 24 \;,\; v = & 544 \\ w = & 7 \;,\; h = & 13 \;,\; x = & 32 \;,\; y = & 11 \;,\; v = & 91 \\ w = & 8 \;,\; h = & 11 \;,\; x = & 32 \;,\; y = & 0 \;,\; v = & 88 \\ w = & 1 \;,\; h = & 13 \;,\; x = & 39 \;,\; y = & 11 \;,\; v = & 13 \end{array}$

	5x11		35x12	
26x28 14x28		26x28		14x28

$$\begin{array}{l} w=26 \ , \ h=28 \ , \ x=0 \ , \ y=0 \ , \ v=728 \\ w=35 \ , \ h=12 \ , \ x=5 \ , \ y=28 \ , \ v=420 \\ w=14 \ , \ h=28 \ , \ x=26 \ , \ y=0 \ , \ v=392 \\ w=5 \ , \ h=11 \ , \ x=0 \ , \ y=28 \ , \ v=55 \end{array}$$

22x6 18x13 22x33		1
	22x6	18x13
18x27	$22\mathrm{x}33$	
		18x27

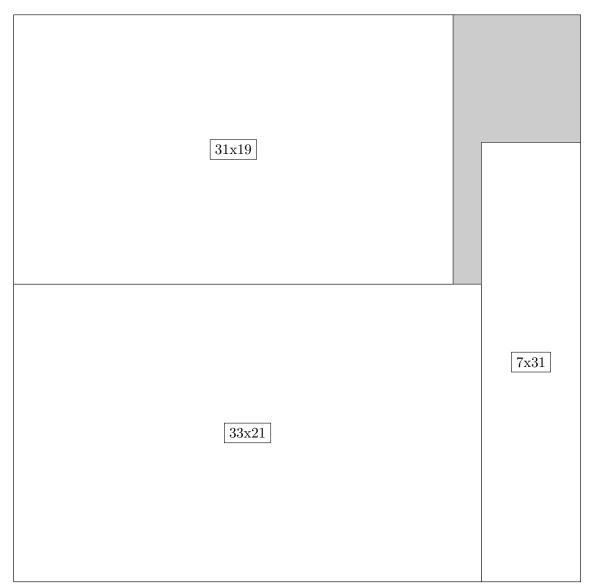
$$\le =22$$
 , h =33 , x =0 , y =0 , v =726

$$\mathbf{w}$$
 =18 , h =27 , x =22 , y =0 , v =486

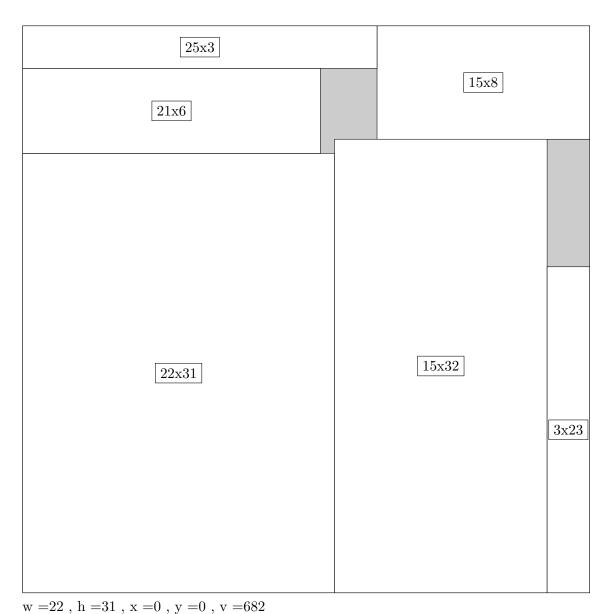
$$\le =18$$
 , h =13 , x =22 , y =27 , v =234

$$\le =22$$
 , h =6 , x =0 , y =33 , v =132

$$\le =14$$
 , $h=1$, $x=8$, $y=39$, $v=14$



$$\begin{array}{l} w = \! 33 \; , \; h = \! 21 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 693 \\ w = \! 31 \; , \; h = \! 19 \; , \; x = \! 0 \; , \; y = \! 21 \; , \; v = \! 589 \\ w = \! 7 \; , \; h = \! 31 \; , \; x = \! 33 \; , \; y = \! 0 \; , \; v = \! 217 \end{array}$$



$$w = 25$$
, $h = 3$, $x = 0$, $y = 37$, $v = 75$

$$w = 3$$
, $h = 23$, $x = 37$, $y = 0$, $v = 69$

	01
27x15	9x1 13x10
$27 \mathrm{x} 25$	13x29

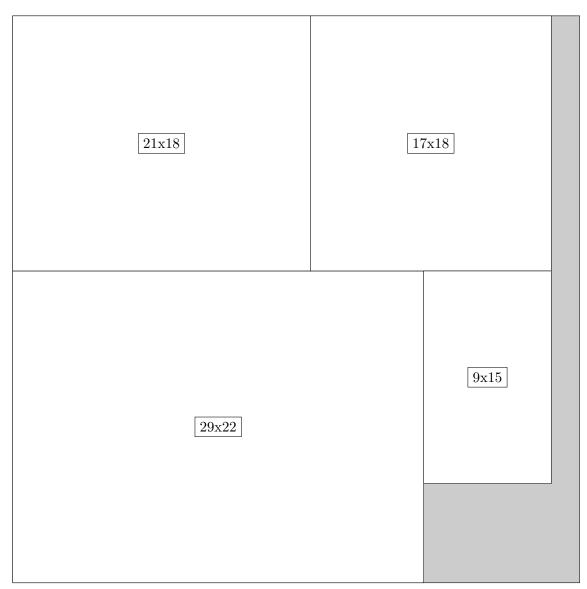
$$\begin{array}{l} w = 27 \ , \ h = 25 \ , \ x = 0 \ , \ y = 0 \ , \ v = 675 \\ w = 27 \ , \ h = 15 \ , \ x = 0 \ , \ y = 25 \ , \ v = 405 \\ w = 13 \ , \ h = 29 \ , \ x = 27 \ , \ y = 0 \ , \ v = 377 \end{array}$$

$$\le =13$$
 , h =10 , x =27 , y =29 , v =130

$$w$$
 =9 , h =1 , x =27 , y =39 , v =9

4x5		32	x5
	24x8		
	24x27		$\boxed{16\text{x}35}$

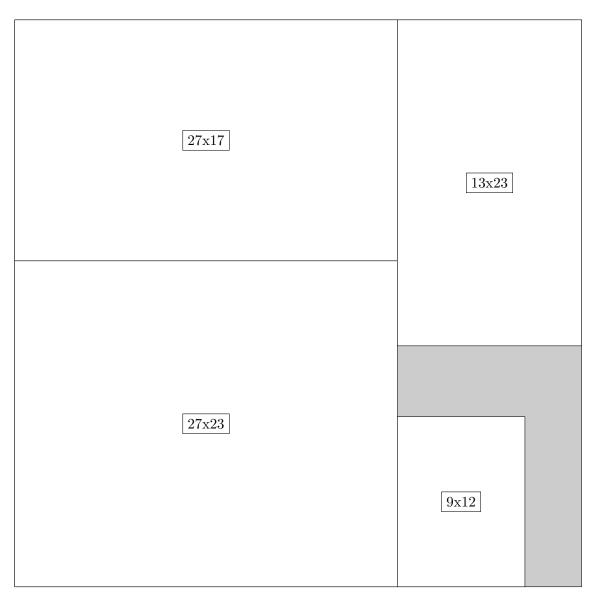
$$\begin{array}{l} w = 24 \; , \; h = 27 \; , \; x = 0 \; , \; y = 0 \; , \; v = 648 \\ w = 16 \; , \; h = 35 \; , \; x = 24 \; , \; y = 0 \; , \; v = 560 \\ w = 24 \; , \; h = 8 \; , \; x = 0 \; , \; y = 27 \; , \; v = 192 \\ w = 32 \; , \; h = 5 \; , \; x = 8 \; , \; y = 35 \; , \; v = 160 \\ w = 4 \; , \; h = 5 \; , \; x = 4 \; , \; y = 35 \; , \; v = 20 \end{array}$$



$$\begin{array}{l} w = 29 \ , \ h = 22 \ , \ x = 0 \ , \ y = 0 \ , \ v = 638 \\ w = 21 \ , \ h = 18 \ , \ x = 0 \ , \ y = 22 \ , \ v = 378 \end{array}$$

$$\le =17$$
 , h =18 , x =21 , y =22 , v =306

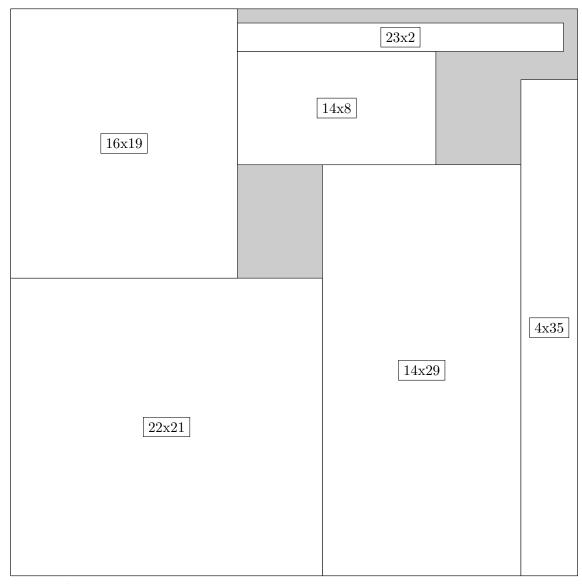
$$w = 17$$
, $h = 18$, $x = 21$, $y = 22$, $v = 300$
 $w = 9$, $h = 15$, $x = 29$, $y = 7$, $v = 135$



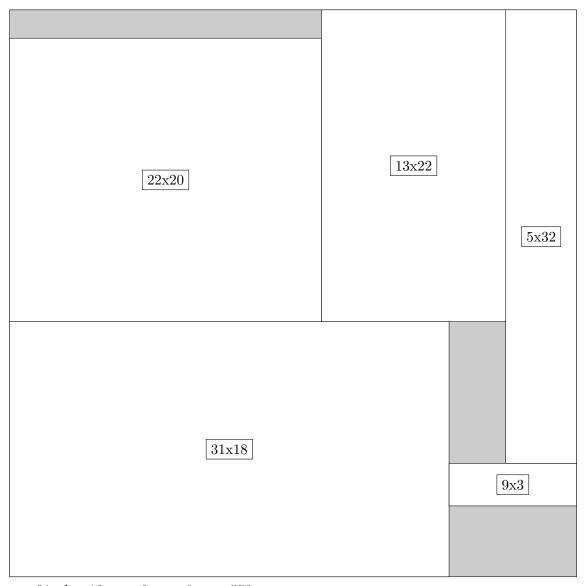
$$\begin{array}{l} w = \! 27 \ , \ h = \! 23 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 621 \\ w = \! 27 \ , \ h = \! 17 \ , \ x = \! 0 \ , \ y = \! 23 \ , \ v = \! 459 \end{array}$$

$$\le =13$$
 , h =23 , x =27 , y =17 , v =299

$$w = 13$$
, $h = 23$, $x = 2t$, $y = 1t$, $v = 29$; $w = 9$, $h = 12$, $x = 27$, $y = 0$, $v = 108$



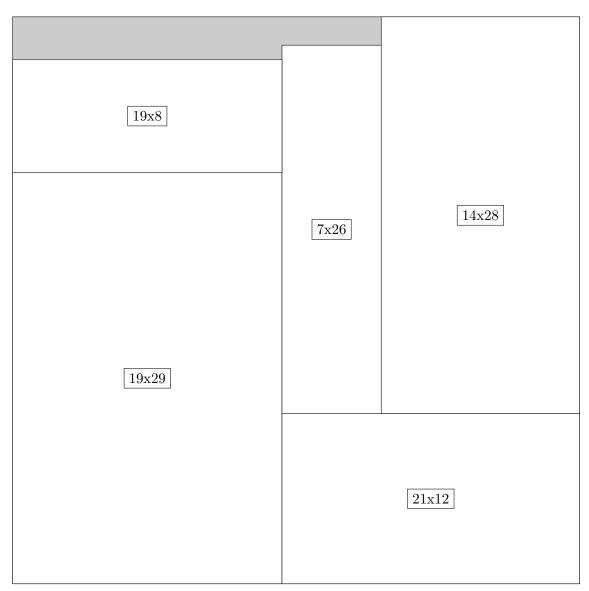
$$\begin{array}{l} w=22\;,\; h=21\;,\; x=0\;,\; y=0\;,\; v=462\\ w=14\;,\; h=29\;,\; x=22\;,\; y=0\;,\; v=406\\ w=16\;,\; h=19\;,\; x=0\;,\; y=21\;,\; v=304\\ w=4\;,\; h=35\;,\; x=36\;,\; y=0\;,\; v=140\\ w=14\;,\; h=8\;,\; x=16\;,\; y=29\;,\; v=112\\ w=23\;,\; h=2\;,\; x=16\;,\; y=37\;,\; v=46 \end{array}$$



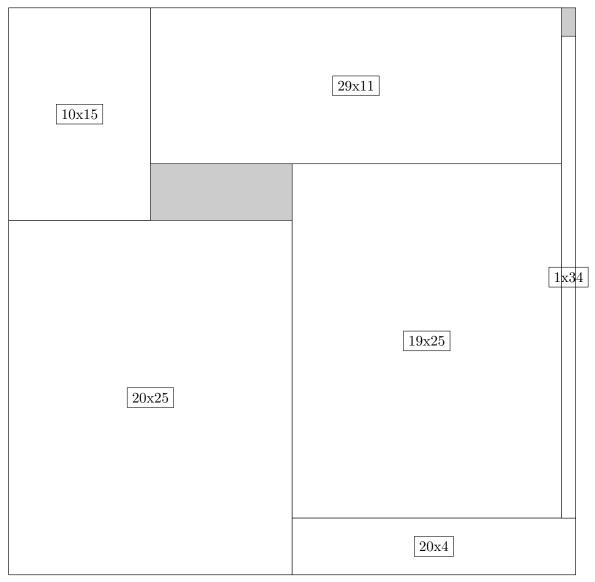
$$\begin{array}{l} w = \! 31 \ , \, h = \! 18 \ , \, x = \! 0 \ , \, y = \! 0 \ , \, v = \! 558 \\ w = \! 22 \ , \, h = \! 20 \ , \, x = \! 0 \ , \, y = \! 18 \ , \, v = \! 440 \end{array}$$

$$w=\!5$$
 , $h=\!32$, $x=\!35$, $y=\!8$, $v=\!160$

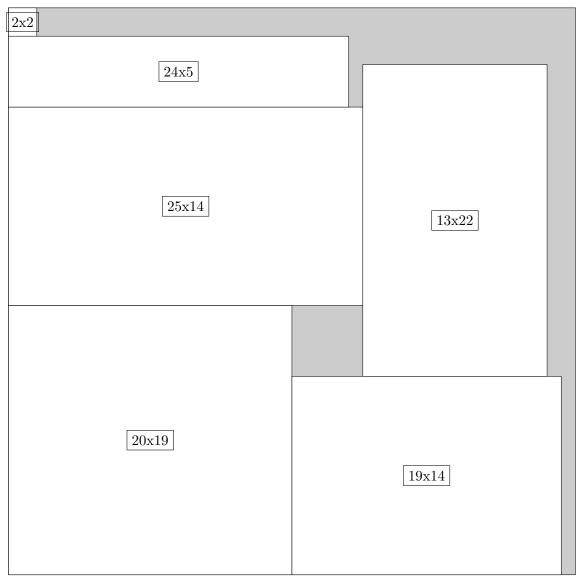
$$w = 9$$
, $h = 3$, $x = 31$, $y = 5$, $v = 27$



$$\begin{array}{l} w = & 19 \ , \ h = & 29 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 551 \\ w = & 14 \ , \ h = & 28 \ , \ x = & 26 \ , \ y = & 12 \ , \ v = & 392 \\ w = & 21 \ , \ h = & 12 \ , \ x = & 19 \ , \ y = & 0 \ , \ v = & 252 \\ w = & 7 \ , \ h = & 26 \ , \ x = & 19 \ , \ y = & 12 \ , \ v = & 182 \\ w = & 19 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 29 \ , \ v = & 152 \end{array}$$



$$\begin{array}{l} w=20 \ , \ h=25 \ , \ x=0 \ , \ y=0 \ , \ v=500 \\ w=19 \ , \ h=25 \ , \ x=20 \ , \ y=4 \ , \ v=475 \\ w=29 \ , \ h=11 \ , \ x=10 \ , \ y=29 \ , \ v=319 \\ w=10 \ , \ h=15 \ , \ x=0 \ , \ y=25 \ , \ v=150 \\ w=20 \ , \ h=4 \ , \ x=20 \ , \ y=0 \ , \ v=80 \\ w=1 \ , \ h=34 \ , \ x=39 \ , \ y=4 \ , \ v=34 \end{array}$$



$$w = 20$$
, $h = 19$, $x = 0$, $y = 0$, $v = 380$

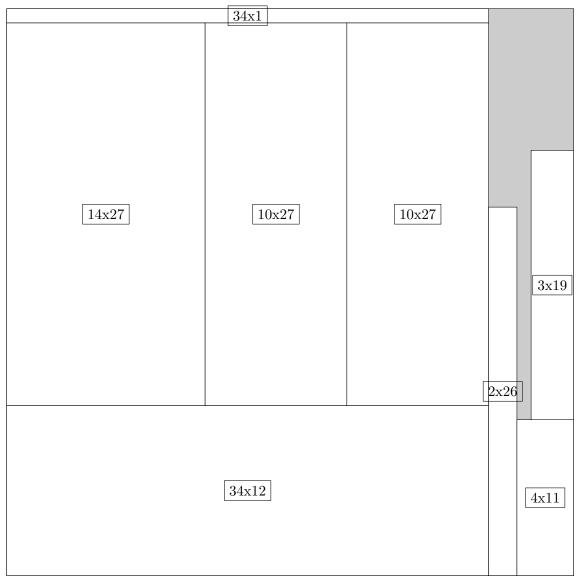
$$\le =25$$
 , h =14 , x =0 , y =19 , v =350

$$\le =13$$
 , h =22 , x =25 , y =14 , v =286

$$\le =19$$
 , $= 14$, $= 20$, $y = 0$, $v = 266$

$$\le =24$$
 , h =5 , x =0 , y =33 , v =120

$$\mathbf{w}$$
 =2 , h =2 , x =0 , y =38 , v =4



$$\mathbf{w}$$
 =34 , h =12 , x =0 , y =0 , v =408

$$w = 14$$
, $h = 27$, $x = 0$, $y = 12$, $v = 378$

$$w=\!10$$
 , $h=\!27$, $x=\!14$, $y=\!12$, $v=\!270$

$$w$$
 =10 , h =27 , x =24 , y =12 , v =270

$$\le =34$$
 , $h=1$, $x=0$, $y=39$, $v=34$

$$\le = 2$$
 , h =
26 , x =
34 , y =
0 , v =
52

$$\mathbf{w}=\!\!4$$
 , $\mathbf{h}=\!\!11$, $\mathbf{x}=\!\!36$, $\mathbf{y}=\!\!0$, $\mathbf{v}=\!\!44$

$$w$$
 =3 , h =19 , x =37 , y =11 , v =57