$ClassName: \ Class_03.2bp\text{-}45$

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

TypeNum: <u>99</u>
Num: <u>100</u>
OutS: <u>43200</u>
InS: <u>36761</u>
Rate: <u>0.851</u>
UB: <u>27</u>
LB0: <u>27</u>
LB: <u>27</u>

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

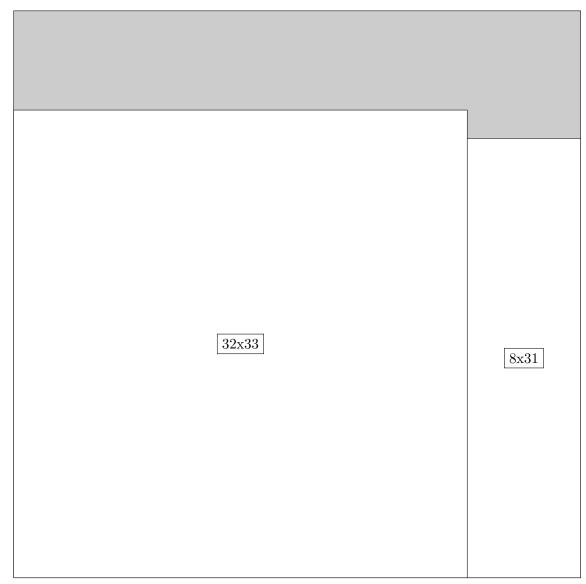
ExtendedNodeCnt: $\underline{\mathbf{1}}$

GenNodeCnt: 1
PrimalNode: 0
ColumnCount: 27
TotalCutCount: 0
RootCutCount: 0
LPSolverCnt: 1
PricingSolverCnt: 0
Branch And Bound Nu

Branch And
Bound Num: $\underline{\mathbf{1}}$

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.094 sTotalTime: 0.157 s



 $\begin{array}{l} w = & 32 \ , \ h = & 33 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 1056 \\ w = & 8 \ , \ h = & 31 \ , \ x = & 32 \ , \ y = & 0 \ , \ v = & 248 \end{array}$



$$\begin{array}{l} w = & 35 \ , \ h = & 28 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 980 \\ w = & 22 \ , \ h = & 12 \ , \ x = & 0 \ , \ y = & 28 \ , \ v = & 264 \\ w = & 5 \ , \ h = & 20 \ , \ x = & 35 \ , \ y = & 0 \ , \ v = & 100 \\ w = & 5 \ , \ h = & 15 \ , \ x = & 35 \ , \ y = & 20 \ , \ v = & 75 \\ w = & 13 \ , \ h = & 1 \ , \ x = & 22 \ , \ y = & 28 \ , \ v = & 13 \end{array}$$

21x5	12x11
$28\mathrm{x}35$	12x29

$$\le =28$$
 , h =35 , x =0 , y =0 , v =980

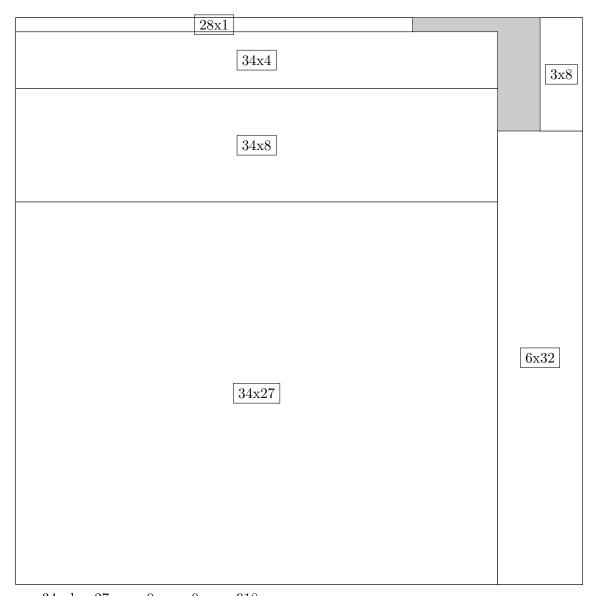
$$\le =12$$
 , h =29 , x =28 , y =0 , v =348

$$\le =12$$
 , $h=11$, $x=28$, $y=29$, $v=132$

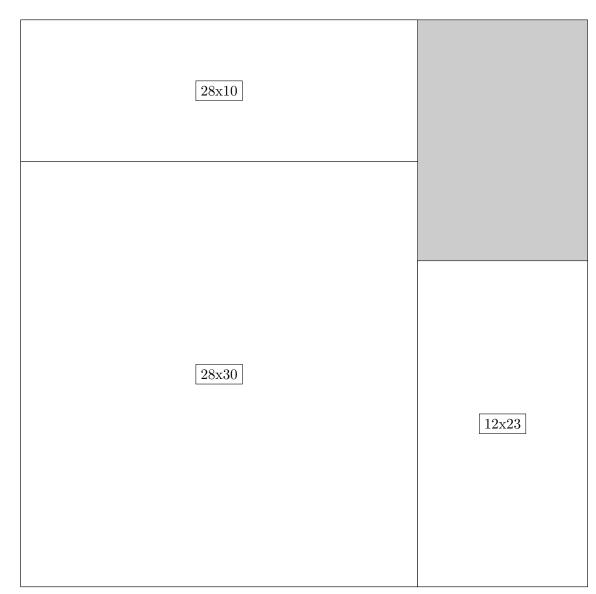
$$\le =21$$
 , $h=5$, $x=7$, $y=35$, $v=105$

14x2	22x2	
		6x4
34x10		
		6x34
34x28	8	

$$\begin{array}{l} w = 34 \; , \; h = 28 \; , \; x = 0 \; , \; y = 0 \; , \; v = 952 \\ w = 34 \; , \; h = 10 \; , \; x = 0 \; , \; y = 28 \; , \; v = 340 \\ w = 6 \; , \; h = 34 \; , \; x = 34 \; , \; y = 0 \; , \; v = 204 \\ w = 22 \; , \; h = 2 \; , \; x = 18 \; , \; y = 38 \; , \; v = 44 \\ w = 14 \; , \; h = 2 \; , \; x = 4 \; , \; y = 38 \; , \; v = 28 \\ w = 6 \; , \; h = 4 \; , \; x = 34 \; , \; y = 34 \; , \; v = 24 \end{array}$$



$$\begin{array}{l} w = 34 \; , \; h = 27 \; , \; x = 0 \; , \; y = 0 \; , \; v = 918 \\ w = 34 \; , \; h = 8 \; , \; x = 0 \; , \; y = 27 \; , \; v = 272 \\ w = 6 \; , \; h = 32 \; , \; x = 34 \; , \; y = 0 \; , \; v = 192 \\ w = 34 \; , \; h = 4 \; , \; x = 0 \; , \; y = 35 \; , \; v = 136 \\ w = 28 \; , \; h = 1 \; , \; x = 0 \; , \; y = 39 \; , \; v = 28 \\ w = 3 \; , \; h = 8 \; , \; x = 37 \; , \; y = 32 \; , \; v = 24 \end{array}$$



$$w = 28$$
, $h = 30$, $x = 0$, $y = 0$, $v = 840$

$$\le =28$$
 , h =10 , x =0 , y =30 , v =280

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

	23x10	6x10
	31x27	9x30

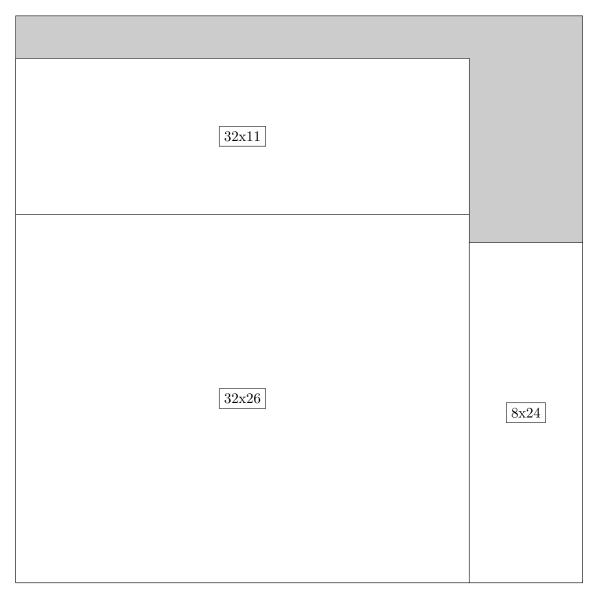
$$w = 31$$
, $h = 27$, $x = 0$, $y = 0$, $v = 837$

$$\le =9$$
 , h =30 , x =31 , y =0 , v =270

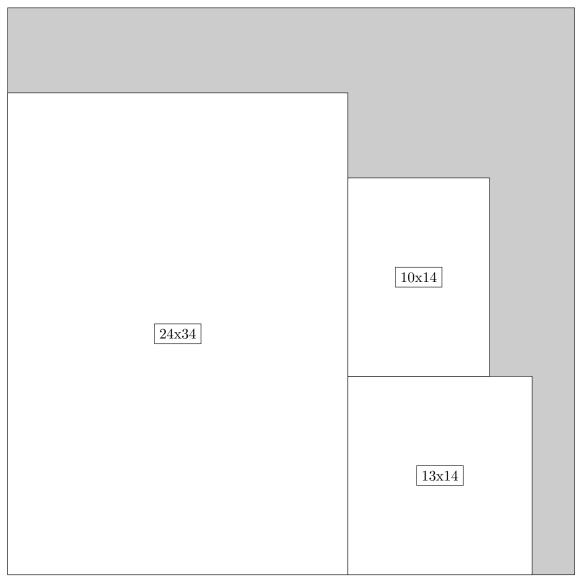
$$\le =23$$
 , h =10 , x =11 , y =30 , v =230

$$\mathbf{w}$$
 =24 , h =3 , x =7 , y =27 , v =72

$$\mathbf{w}$$
 =6 , h =10 , x =34 , y =30 , v =60



$$\begin{array}{l} w = 32 \; , \; h = 26 \; , \; x = 0 \; , \; y = 0 \; , \; v = 832 \\ w = 32 \; , \; h = 11 \; , \; x = 0 \; , \; y = 26 \; , \; v = 352 \\ w = 8 \; , \; h = 24 \; , \; x = 32 \; , \; y = 0 \; , \; v = 192 \end{array}$$



$$\le =24$$
 , h =34 , x =0 , y =0 , v =816

$$\mathbf{w}$$
 =13 , h =14 , x =24 , y =0 , v =182

$$w$$
 =10 , h =14 , x =24 , y =14 , v =140

	5x4	
26x9		
		14x15
26x31		
		14x21

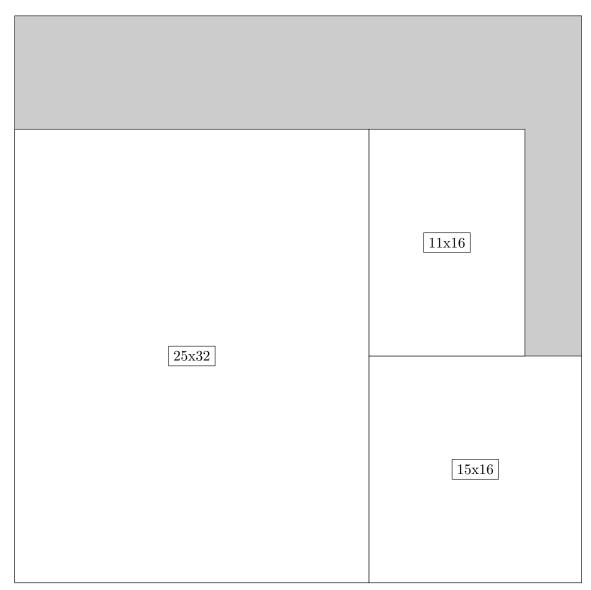
$$w = 14$$
, $h = 21$, $x = 26$, $y = 0$, $v = 294$

$$\le =26$$
 , h =31 , x =0 , y =0 , v =
806

$$\mathbf{w}$$
 =26 , h =9 , x =0 , y =31 , v =234

$$\mathbf{w}$$
 =14 , h =15 , x =26 , y =21 , v =210

$$\mathbf{w}$$
 =5 , h =4 , x =26 , y =36 , v =20

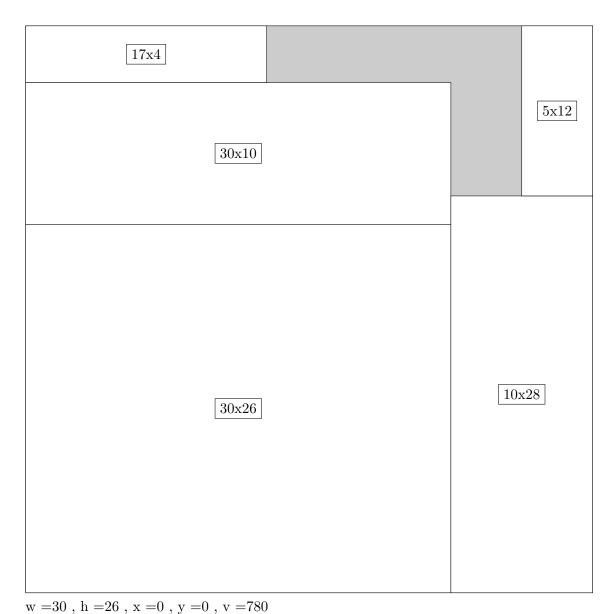


$$\begin{array}{l} w = \! 25 \ , \ h = \! 32 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 800 \\ w = \! 15 \ , \ h = \! 16 \ , \ x = \! 25 \ , \ y = \! 0 \ , \ v = \! 240 \end{array}$$

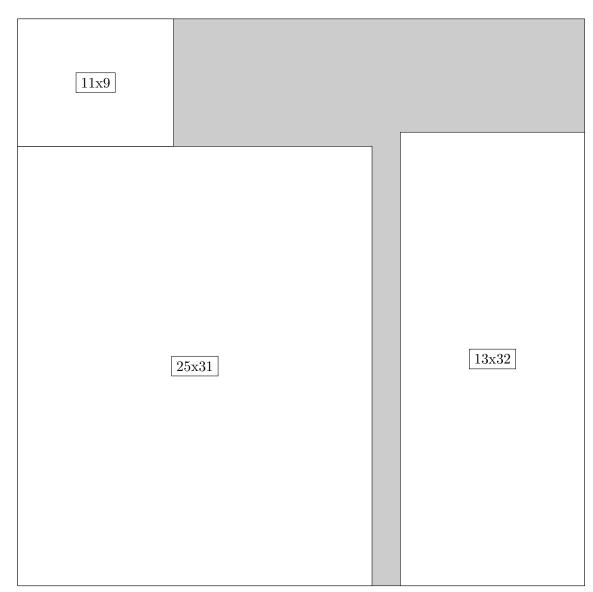
$$\le =11$$
 , $h=16$, $x=25$, $y=16$, $v=176$

23x34 17x34	

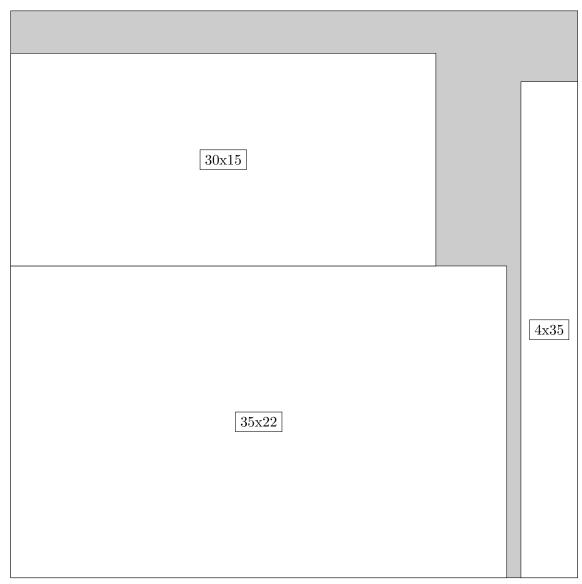
$$\begin{array}{l} w = \! 23 \ , \, h = \! 34 \ , \, x = \! 0 \ , \, y = \! 0 \ , \, v = \! 782 \\ w = \! 17 \ , \, h = \! 34 \ , \, x = \! 23 \ , \, y = \! 0 \ , \, v = \! 578 \end{array}$$



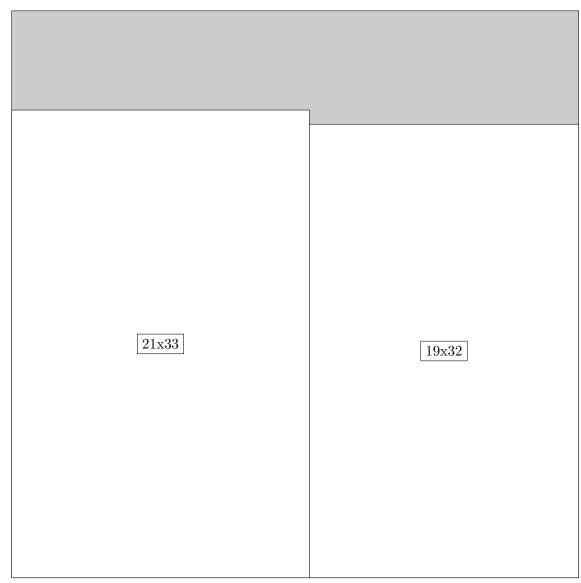
 $w=\!5$, $h=\!12$, $x=\!35$, $y=\!28$, $v=\!60$

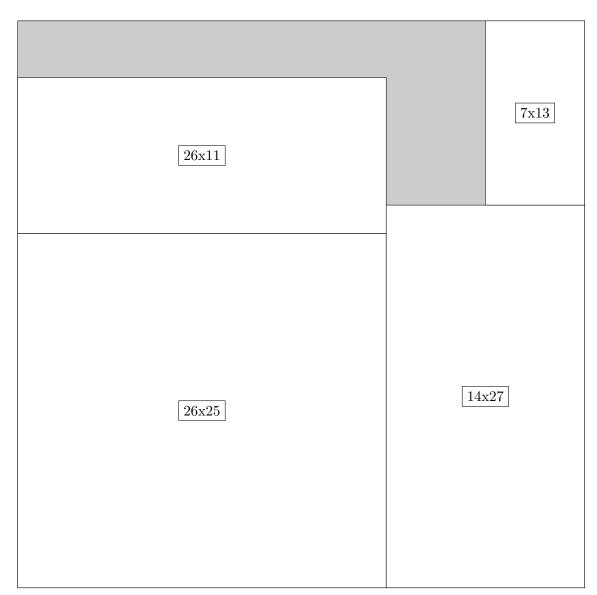


$$\begin{array}{l} w = \! 25 \ , \ h = \! 31 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 775 \\ w = \! 13 \ , \ h = \! 32 \ , \ x = \! 27 \ , \ y = \! 0 \ , \ v = \! 416 \\ w = \! 11 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 31 \ , \ v = \! 99 \end{array}$$

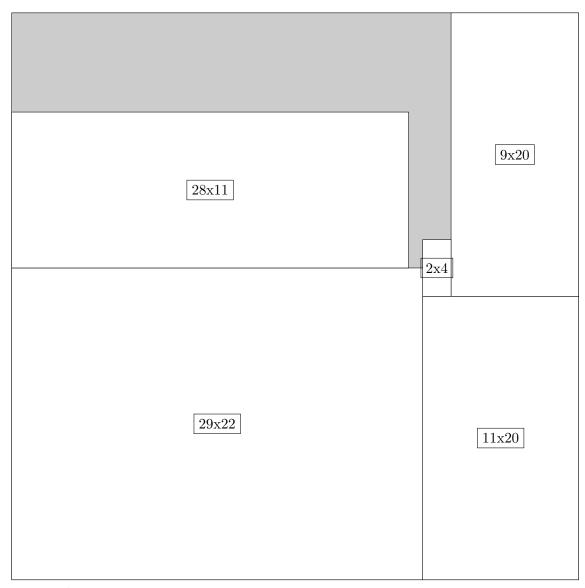


$$\begin{array}{l} w = \! 35 \ , \ h = \! 22 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 770 \\ w = \! 30 \ , \ h = \! 15 \ , \ x = \! 0 \ , \ y = \! 22 \ , \ v = \! 450 \\ w = \! 4 \ , \ h = \! 35 \ , \ x = \! 36 \ , \ y = \! 0 \ , \ v = \! 140 \end{array}$$





$$\begin{array}{l} w=26 \ , \ h=25 \ , \ x=0 \ , \ y=0 \ , \ v=650 \\ w=14 \ , \ h=27 \ , \ x=26 \ , \ y=0 \ , \ v=378 \\ w=26 \ , \ h=11 \ , \ x=0 \ , \ y=25 \ , \ v=286 \\ w=7 \ , \ h=13 \ , \ x=33 \ , \ y=27 \ , \ v=91 \end{array}$$



 $\begin{array}{l} w=29 \ , \ h=22 \ , \ x=0 \ , \ y=0 \ , \ v=638 \\ w=28 \ , \ h=11 \ , \ x=0 \ , \ y=22 \ , \ v=308 \\ w=11 \ , \ h=20 \ , \ x=29 \ , \ y=0 \ , \ v=220 \\ w=9 \ , \ h=20 \ , \ x=31 \ , \ y=20 \ , \ v=180 \\ w=2 \ , \ h=4 \ , \ x=29 \ , \ y=20 \ , \ v=8 \end{array}$

4x19		28x19	
			10x7
	30x21		[10x14]

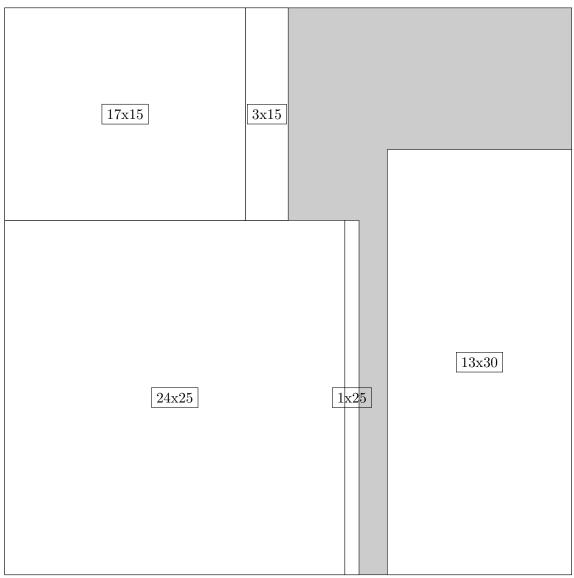
$$w = 30$$
, $h = 21$, $x = 0$, $y = 0$, $v = 630$

$$w$$
 =28 , h =19 , x =12 , y =21 , v =532

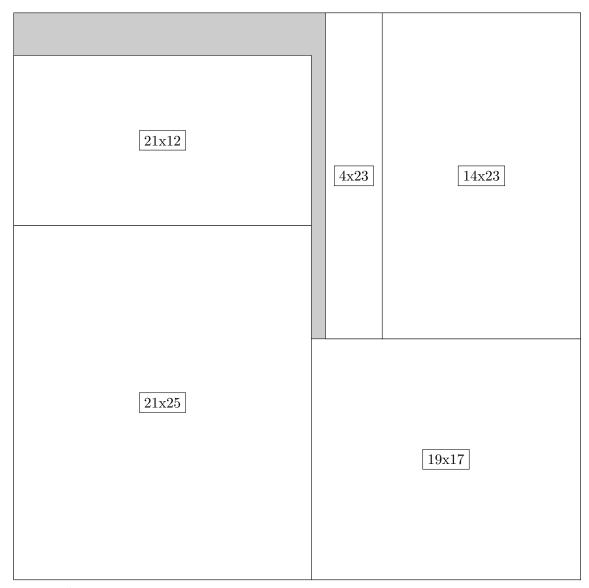
$$\le =10$$
 , h =14 , x =30 , y =0 , v =140

$$\mathbf{w}$$
 =4 , h =19 , x =8 , y =21 , v =76

$$\le =10$$
 , h =7 , x =30 , y =14 , v =70



 $\begin{array}{l} w=24 \ , \ h=25 \ , \ x=0 \ , \ y=0 \ , \ v=600 \\ w=13 \ , \ h=30 \ , \ x=27 \ , \ y=0 \ , \ v=390 \\ w=17 \ , \ h=15 \ , \ x=0 \ , \ y=25 \ , \ v=255 \\ w=3 \ , \ h=15 \ , \ x=17 \ , \ y=25 \ , \ v=45 \\ w=1 \ , \ h=25 \ , \ x=24 \ , \ y=0 \ , \ v=25 \end{array}$



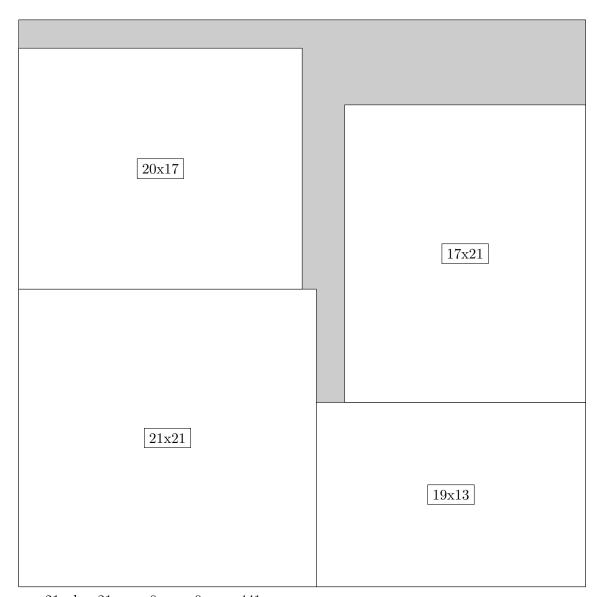
$$\le =21$$
 , h =25 , x =0 , y =0 , v =525

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

$$\mathbf{w}=\!14$$
 , $\mathbf{h}=\!23$, $\mathbf{x}=\!26$, $\mathbf{y}=\!17$, $\mathbf{v}=\!322$

$$\le =21$$
 , h =12 , x =0 , y =25 , v =252

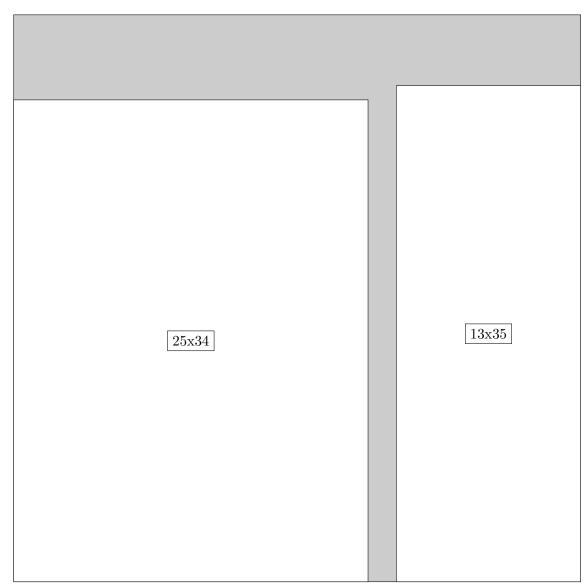
$$w = 4$$
, $h = 23$, $x = 22$, $y = 17$, $v = 92$



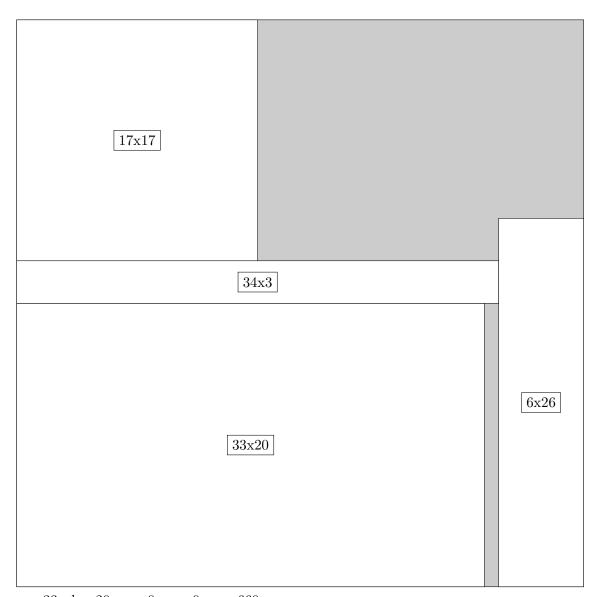
$$\begin{array}{l} w = \! 21 \ , \ h = \! 21 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 441 \\ w = \! 17 \ , \ h = \! 21 \ , \ x = \! 23 \ , \ y = \! 13 \ , \ v = \! 357 \end{array}$$

$$w=20$$
 , $h=\!17$, $x=\!0$, $y=\!21$, $v=\!340$

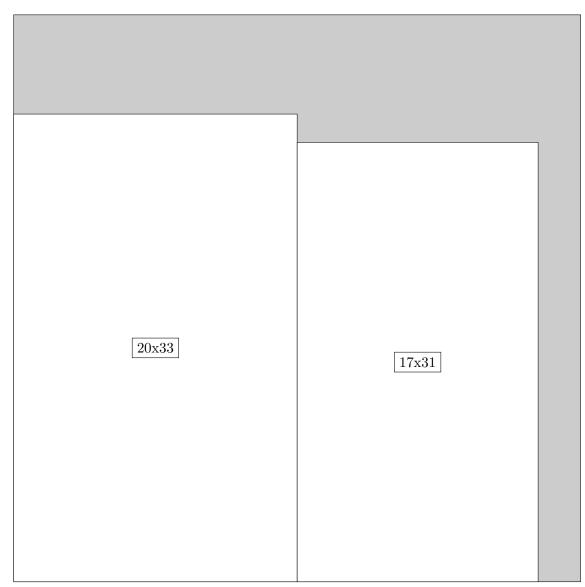
$$w = 19$$
, $h = 13$, $x = 21$, $y = 0$, $v = 247$

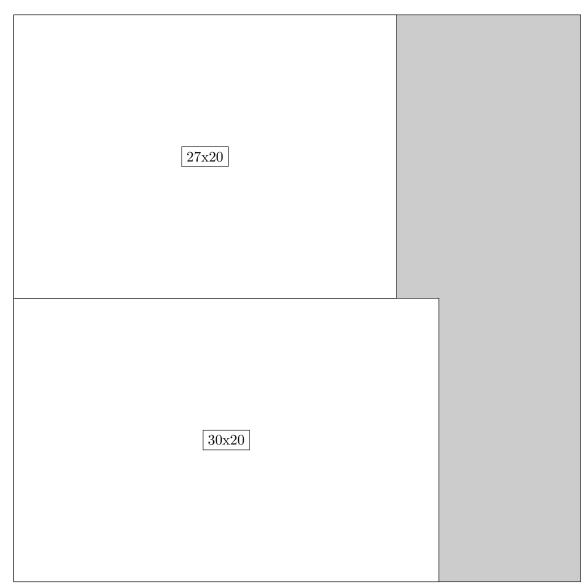


 $\begin{array}{l} w = \! 13 \ , \, h = \! 35 \ , \, x = \! 27 \ , \, y = \! 0 \ , \, v = \! 455 \\ w = \! 25 \ , \, h = \! 34 \ , \, x = \! 0 \ , \, y = \! 0 \ , \, v = \! 850 \end{array}$

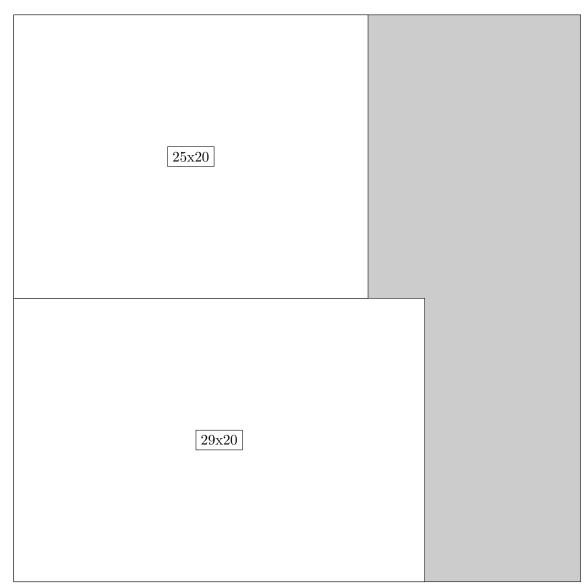


$$\begin{array}{l} w = \! 33 \; , \; h = \! 20 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 660 \\ w = \! 17 \; , \; h = \! 17 \; , \; x = \! 0 \; , \; y = \! 23 \; , \; v = \! 289 \\ w = \! 6 \; , \; h = \! 26 \; , \; x = \! 34 \; , \; y = \! 0 \; , \; v = \! 156 \\ w = \! 34 \; , \; h = \! 3 \; , \; x = \! 0 \; , \; y = \! 20 \; , \; v = \! 102 \end{array}$$





$$\begin{array}{l} w = & 30 \ , \ h = & 20 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 600 \\ w = & 27 \ , \ h = & 20 \ , \ x = & 0 \ , \ y = & 20 \ , \ v = & 540 \end{array}$$



$$\begin{array}{l} w = 29 \ , \, h = 20 \ , \, x = 0 \ , \, y = 0 \ , \, v = 580 \\ w = 25 \ , \, h = 20 \ , \, x = 0 \ , \, y = 20 \ , \, v = 500 \end{array}$$