${\bf ClassName:}~{\bf Class\_03.2bp\text{-}30}$ 

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

TypeNum: <u>79</u> Num: <u>80</u> OutS: <u>27200</u> InS: <u>24257</u> Rate: <u>0.892</u> UB: <u>17</u> LB0: <u>17</u>

LB:  $\underline{17}$ LBWithCut:  $\underline{17}$ NodeCut:  $\underline{0}$ 

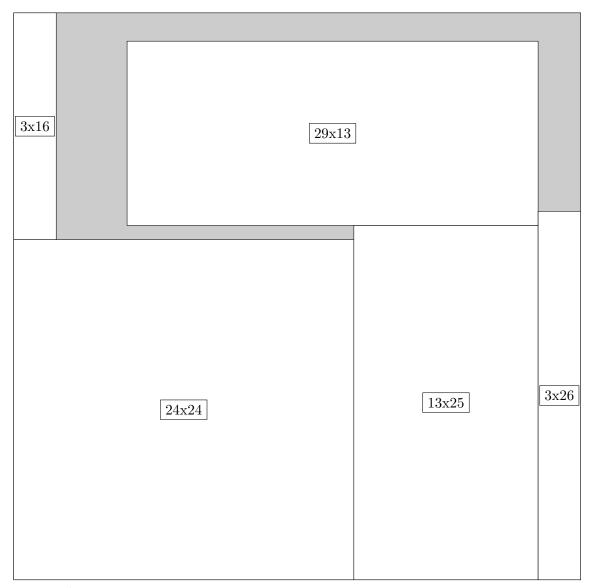
 $\operatorname{ExtendedNodeCnt}$ :  $\underline{\mathbf{1}}$ 

GenNodeCnt: 1
PrimalNode: 0
ColumnCount: 17
TotalCutCount: 0
RootCutCount: 0
LPSolverCnt: 1
PricingSolverCnt: 0

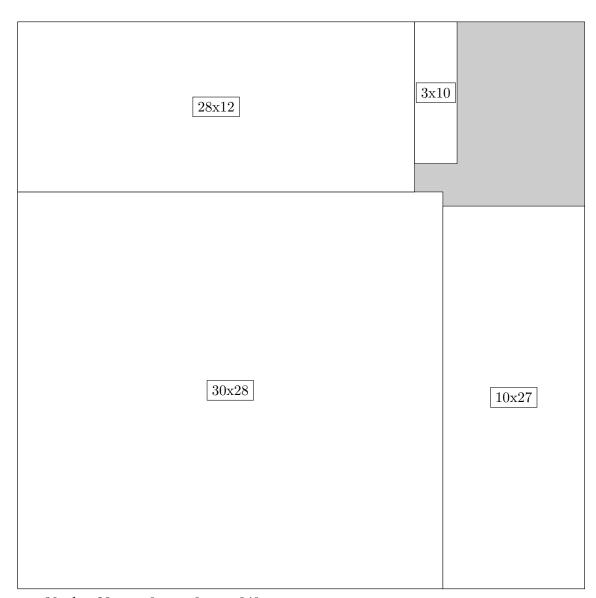
Branch And<br/>Bound Num:  $\underline{\mathbf{1}}$ 

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

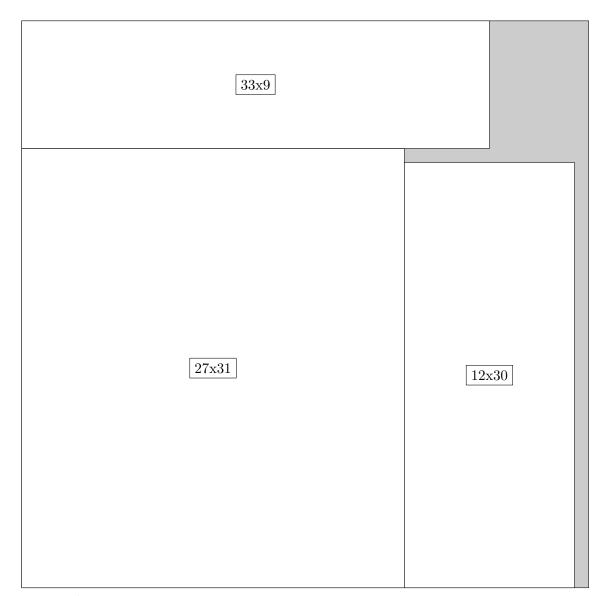
TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.156 s



$$\begin{array}{l} w=24 \;,\; h=24 \;,\; x=0 \;,\; y=0 \;,\; v=576 \\ w=29 \;,\; h=13 \;,\; x=8 \;,\; y=25 \;,\; v=377 \\ w=13 \;,\; h=25 \;,\; x=24 \;,\; y=0 \;,\; v=325 \\ w=3 \;,\; h=26 \;,\; x=37 \;,\; y=0 \;,\; v=78 \\ w=3 \;,\; h=16 \;,\; x=0 \;,\; y=24 \;,\; v=48 \end{array}$$



$$\begin{array}{l} w = & 30 \ , \ h = & 28 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 840 \\ w = & 28 \ , \ h = & 12 \ , \ x = & 0 \ , \ y = & 28 \ , \ v = & 336 \\ w = & 10 \ , \ h = & 27 \ , \ x = & 30 \ , \ y = & 0 \ , \ v = & 270 \\ w = & 3 \ , \ h = & 10 \ , \ x = & 28 \ , \ y = & 30 \ , \ v = & 30 \end{array}$$



$$\begin{array}{l} w = \! 27 \; , \; h = \! 31 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 837 \\ w = \! 12 \; , \; h = \! 30 \; , \; x = \! 27 \; , \; y = \! 0 \; , \; v = \! 360 \\ w = \! 33 \; , \; h = \! 9 \; , \; x = \! 0 \; , \; y = \! 31 \; , \; v = \! 297 \end{array}$$

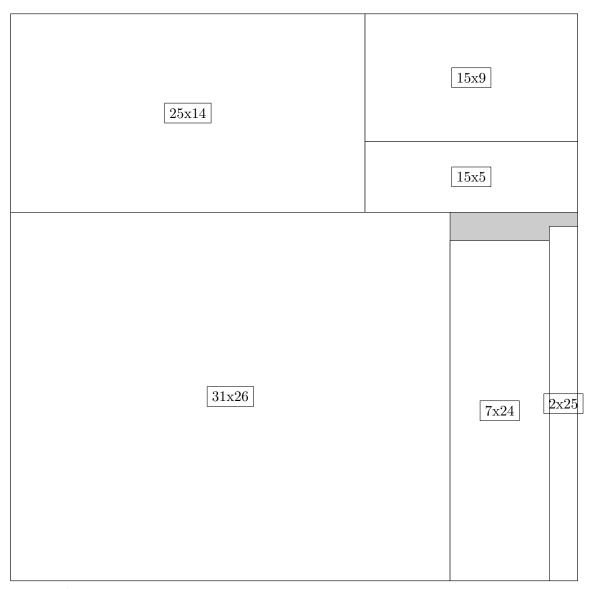
23x11	17x14	
33x25		7x25

$$w = 33$$
,  $h = 25$ ,  $x = 0$ ,  $y = 0$ ,  $v = 825$ 

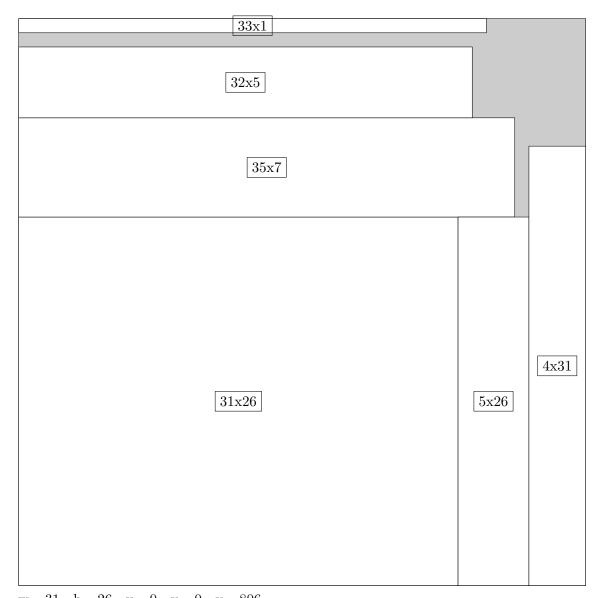
$$\le =23$$
 ,  $h$  =11 ,  $x$  =0 ,  $y$  =25 ,  $v$  =253

$$\le =17$$
 , h =14 , x =23 , y =25 , v =238

$$\mathbf{w}$$
 =7 , h =25 , x =33 , y =0 , v =175

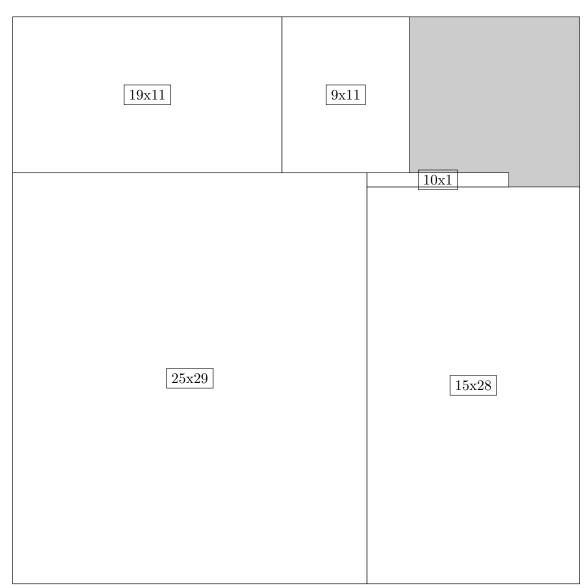


$$\begin{array}{l} w = 31 \ , \ h = 26 \ , \ x = 0 \ , \ y = 0 \ , \ v = 806 \\ w = 25 \ , \ h = 14 \ , \ x = 0 \ , \ y = 26 \ , \ v = 350 \\ w = 7 \ , \ h = 24 \ , \ x = 31 \ , \ y = 0 \ , \ v = 168 \\ w = 15 \ , \ h = 9 \ , \ x = 25 \ , \ y = 31 \ , \ v = 135 \\ w = 15 \ , \ h = 5 \ , \ x = 25 \ , \ y = 26 \ , \ v = 75 \\ w = 2 \ , \ h = 25 \ , \ x = 38 \ , \ y = 0 \ , \ v = 50 \end{array}$$

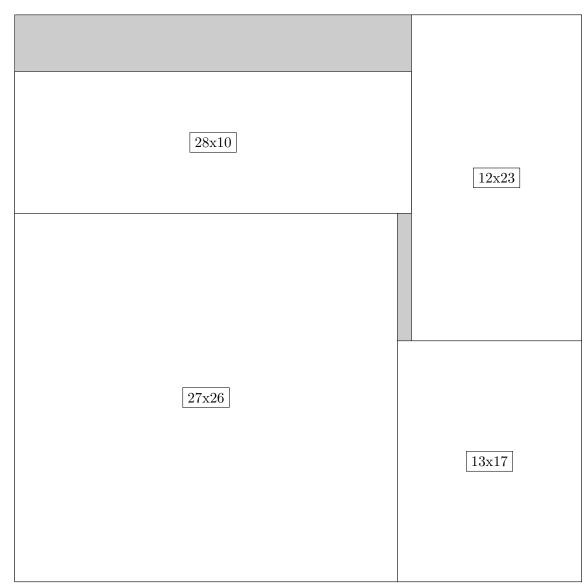


$$\begin{array}{l} w = & 31 \;,\; h = & 26 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 806 \\ w = & 35 \;,\; h = & 7 \;,\; x = & 0 \;,\; y = & 26 \;,\; v = & 245 \\ w = & 32 \;,\; h = & 5 \;,\; x = & 0 \;,\; y = & 33 \;,\; v = & 160 \\ w = & 5 \;,\; h = & 26 \;,\; x = & 31 \;,\; y = & 0 \;,\; v = & 130 \\ w = & 4 \;,\; h = & 31 \;,\; x = & 36 \;,\; y = & 0 \;,\; v = & 124 \end{array}$$

 $\le =33$  , h =1 , x =0 , y =39 , v =33



$$\begin{array}{l} w = 25 \ , \ h = 29 \ , \ x = 0 \ , \ y = 0 \ , \ v = 725 \\ w = 15 \ , \ h = 28 \ , \ x = 25 \ , \ y = 0 \ , \ v = 420 \\ w = 19 \ , \ h = 11 \ , \ x = 0 \ , \ y = 29 \ , \ v = 209 \\ w = 9 \ , \ h = 11 \ , \ x = 19 \ , \ y = 29 \ , \ v = 99 \\ w = 10 \ , \ h = 1 \ , \ x = 25 \ , \ y = 28 \ , \ v = 10 \end{array}$$

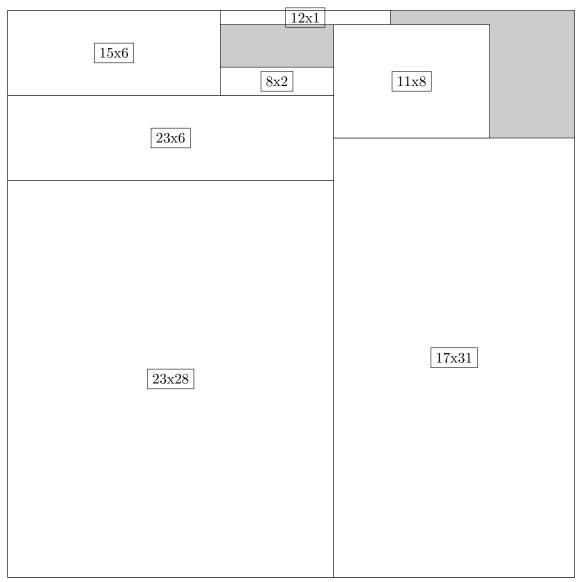


$$\le =27$$
 , h =26 , x =0 , y =0 , v =702

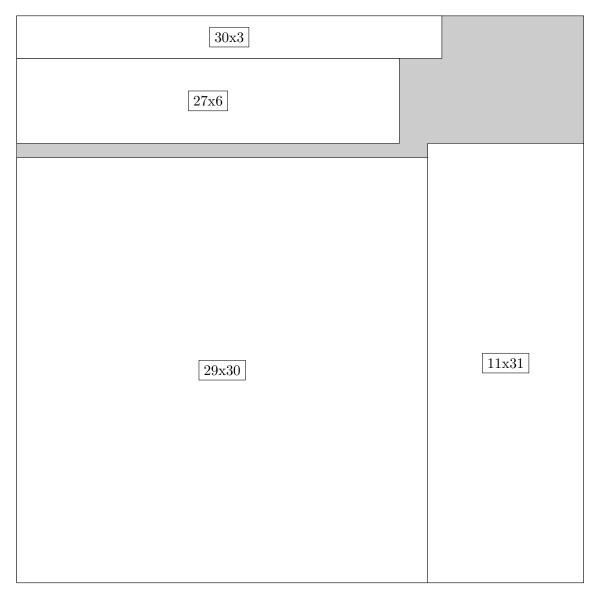
$$\le =28$$
 ,  $h$  =10 ,  $x$  =0 ,  $y$  =26 ,  $v$  =280

$$\le =12$$
 , h =23 , x =28 , y =17 , v =276

$$\le =13$$
 ,  $h$  =17 ,  $x$  =27 ,  $y$  =0 ,  $v$  =221



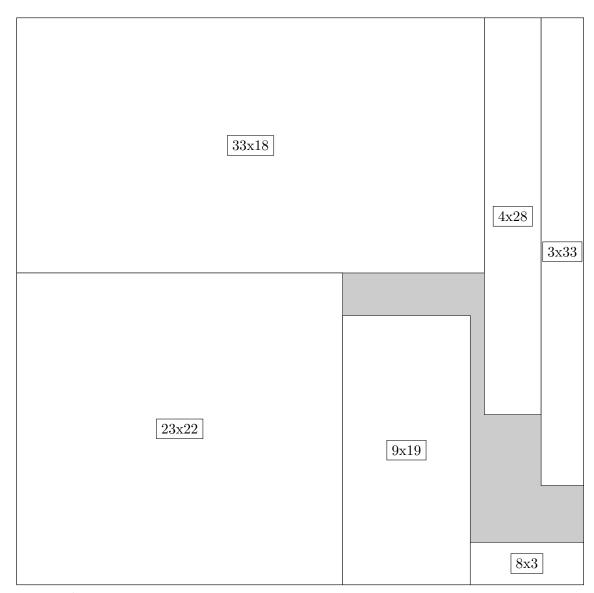
$$\begin{array}{l} w=23 \ , \ h=28 \ , \ x=0 \ , \ y=0 \ , \ v=644 \\ w=17 \ , \ h=31 \ , \ x=23 \ , \ y=0 \ , \ v=527 \\ w=23 \ , \ h=6 \ , \ x=0 \ , \ y=28 \ , \ v=138 \\ w=15 \ , \ h=6 \ , \ x=0 \ , \ y=34 \ , \ v=90 \\ w=11 \ , \ h=8 \ , \ x=23 \ , \ y=31 \ , \ v=88 \\ w=8 \ , \ h=2 \ , \ x=15 \ , \ y=34 \ , \ v=16 \\ w=12 \ , \ h=1 \ , \ x=15 \ , \ y=39 \ , \ v=12 \end{array}$$



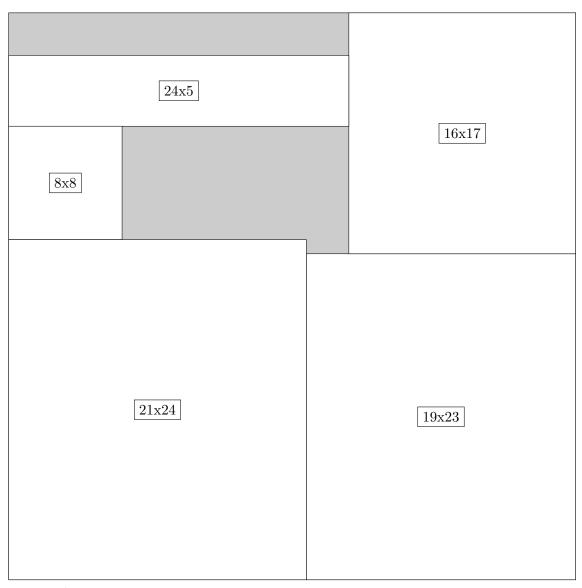
$$\begin{array}{l} w = 29 \ , \ h = \!\! 30 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 870 \\ w = \!\! 11 \ , \ h = \!\! 31 \ , \ x = \!\! 29 \ , \ y = \!\! 0 \ , \ v = \!\! 341 \end{array}$$

$$\le =27$$
 , h =6 , x =0 , y =31 , v =162

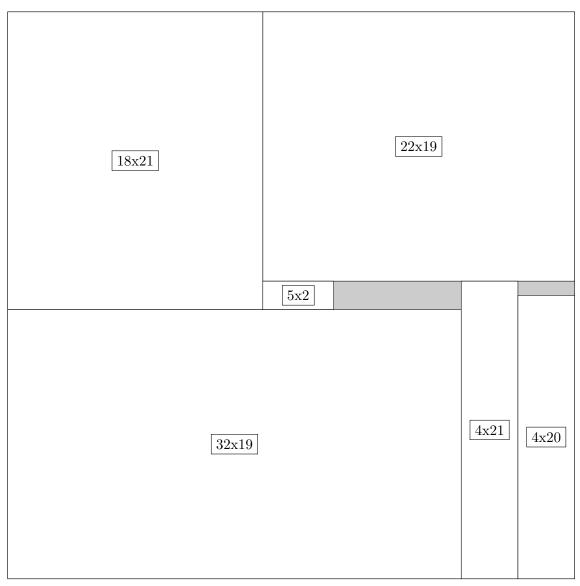
$$\mathbf{w}=\!30$$
 ,  $\mathbf{h}=\!3$  ,  $\mathbf{x}=\!0$  ,  $\mathbf{y}=\!37$  ,  $\mathbf{v}=\!90$ 



 $\begin{array}{l} w = \! 33 \; , \; h = \! 18 \; , \; x = \! 0 \; , \; y = \! 22 \; , \; v = \! 594 \\ w = \! 23 \; , \; h = \! 22 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 506 \\ w = \! 9 \; , \; h = \! 19 \; , \; x = \! 23 \; , \; y = \! 0 \; , \; v = \! 171 \\ w = \! 4 \; , \; h = \! 28 \; , \; x = \! 33 \; , \; y = \! 12 \; , \; v = \! 112 \\ w = \! 3 \; , \; h = \! 33 \; , \; x = \! 37 \; , \; y = \! 7 \; , \; v = \! 99 \\ w = \! 8 \; , \; h = \! 3 \; , \; x = \! 32 \; , \; y = \! 0 \; , \; v = \! 24 \\ \end{array}$ 



$$\begin{array}{l} w = & 19 \ , \ h = & 23 \ , \ x = & 21 \ , \ y = & 0 \ , \ v = & 437 \\ w = & 16 \ , \ h = & 17 \ , \ x = & 24 \ , \ y = & 23 \ , \ v = & 272 \\ w = & 24 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 32 \ , \ v = & 120 \\ w = & 8 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 24 \ , \ v = & 64 \\ w = & 21 \ , \ h = & 24 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 504 \end{array}$$



$$w = 32$$
,  $h = 19$ ,  $x = 0$ ,  $y = 0$ ,  $v = 608$ 

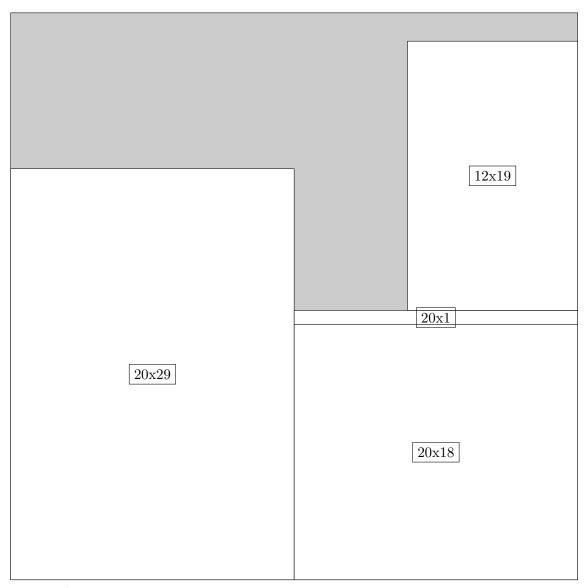
$$\le =22$$
 ,  $h=19$  ,  $x=18$  ,  $y=21$  ,  $v=418$ 

$$\le =18$$
 , h =21 , x =0 , y =19 , v =378

$$\mathbf{w}$$
 =4 , h =21 , x =32 , y =0 , v =84

$$\mathbf{w}$$
 =4 , h =20 , x =36 , y =0 , v =80

$$w$$
 =5 ,  $h$  =2 ,  $x$  =18 ,  $y$  =19 ,  $v$  =10

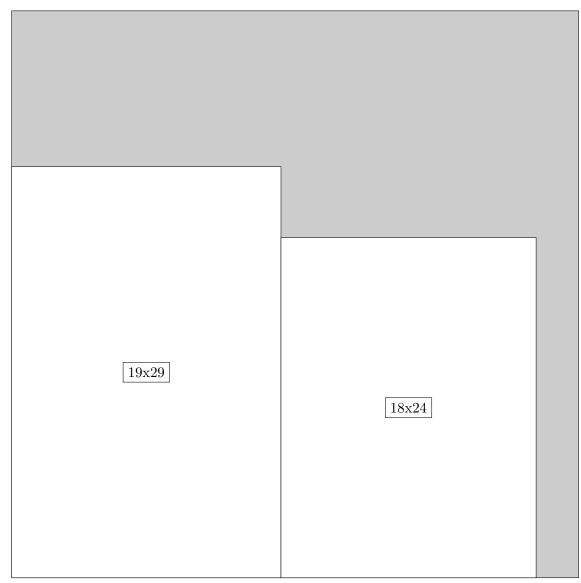


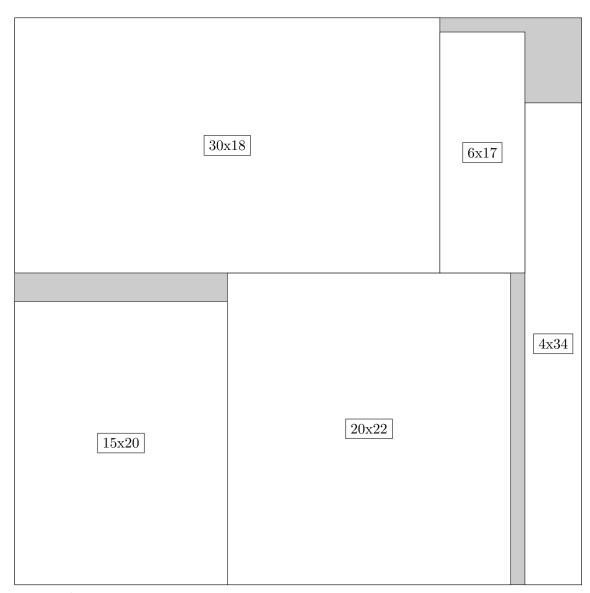
$$\le =20$$
 , h =29 , x =0 , y =0 , v =580

$$\le =20$$
 , h =18 , x =20 , y =0 , v =360

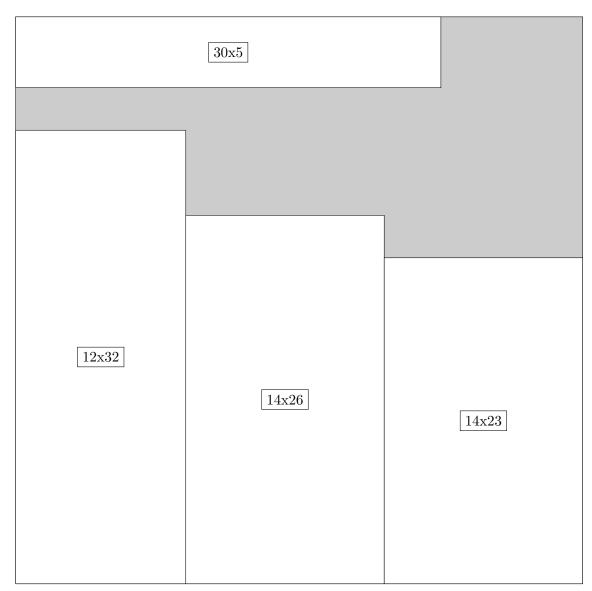
$$\le =12$$
 , h =19 , x =28 , y =19 , v =228

$$\le =20$$
 , h =1 , x =20 , y =18 , v =20





$$\begin{array}{l} w = \! 15 \; , \; h = \! 20 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 300 \\ w = \! 20 \; , \; h = \! 22 \; , \; x = \! 15 \; , \; y = \! 0 \; , \; v = \! 440 \\ w = \! 30 \; , \; h = \! 18 \; , \; x = \! 0 \; , \; y = \! 22 \; , \; v = \! 540 \\ w = \! 4 \; , \; h = \! 34 \; , \; x = \! 36 \; , \; y = \! 0 \; , \; v = \! 136 \\ w = \! 6 \; , \; h = \! 17 \; , \; x = \! 30 \; , \; y = \! 22 \; , \; v = \! 102 \end{array}$$



 $\begin{array}{l} w = & 12 \;,\; h = & 32 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 384 \\ w = & 14 \;,\; h = & 26 \;,\; x = & 12 \;,\; y = & 0 \;,\; v = & 364 \\ w = & 14 \;,\; h = & 23 \;,\; x = & 26 \;,\; y = & 0 \;,\; v = & 322 \\ w = & 30 \;,\; h = & 5 \;,\; x = & 0 \;,\; y = & 35 \;,\; v = & 150 \end{array}$