$ClassName: \ Class_03.2bp\text{-}40$

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

TypeNum: <u>98</u>
Num: <u>100</u>
OutS: <u>30400</u>
InS: <u>28723</u>
Rate: <u>0.945</u>
UB: <u>19</u>
LB0: <u>19</u>
LB: <u>19</u>

LBWithCut: $\underline{\mathbf{19}}$ NodeCut: $\underline{\mathbf{0}}$

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

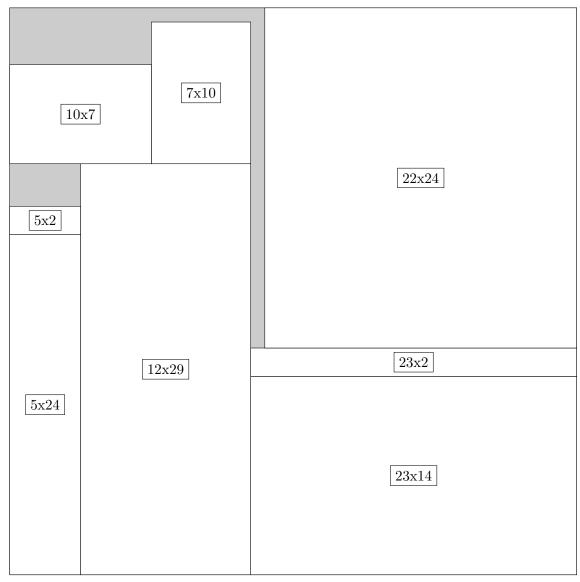
GenNodeCnt: 1
PrimalNode: 0
ColumnCount: 19
TotalCutCount: 0
RootCutCount: 0
LPSolverCnt: 1
PricingSolverCnt: 0
Branch And Bound Nu

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

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

TimeOnInitSolution: $\underline{600.000 \text{ s}}$

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.062 sTotalTime: 600.375 s



$$w = 23$$
, $h = 14$, $x = 17$, $y = 0$, $v = 322$

$$\le =23$$
 , h =2 , x =17 , y =14 , v =46

$$w=22$$
 , $h=24$, $x=18$, $y=16$, $v=528$

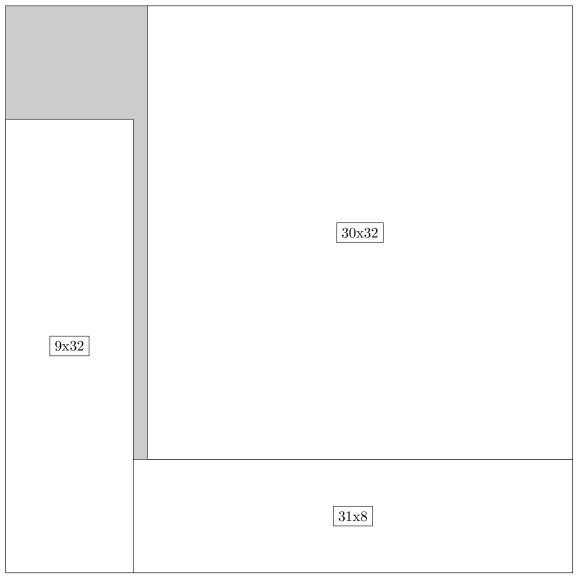
$$w = 12$$
, $h = 29$, $x = 5$, $y = 0$, $v = 348$

$$\mathbf{w}$$
 =5 , h =24 , x =0 , y =0 , v =120

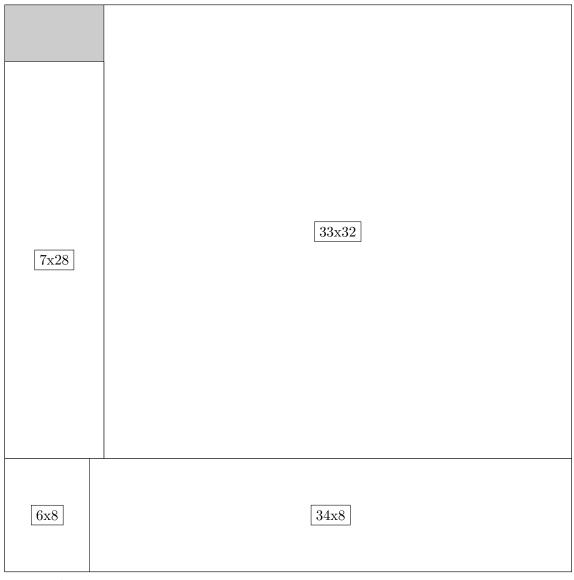
$$\mathbf{w}=\!\!5$$
 , $\mathbf{h}=\!\!2$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!24$, $\mathbf{v}=\!\!10$

$$w$$
 =7 , h =10 , x =10 , y =29 , v =70

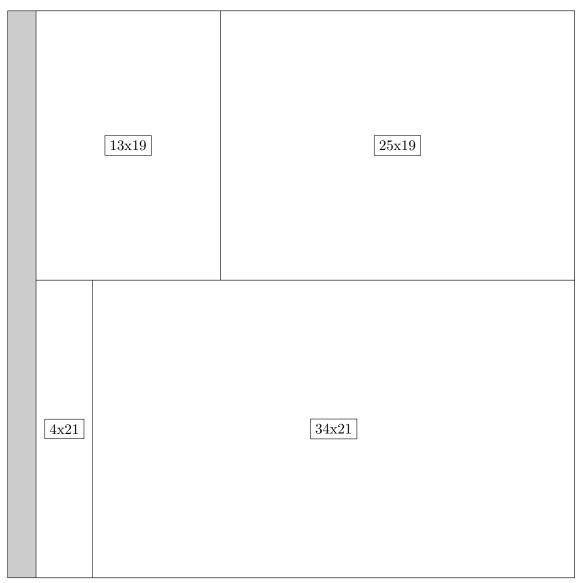
$$\le =10$$
 , h =7 , x =0 , y =29 , v =70



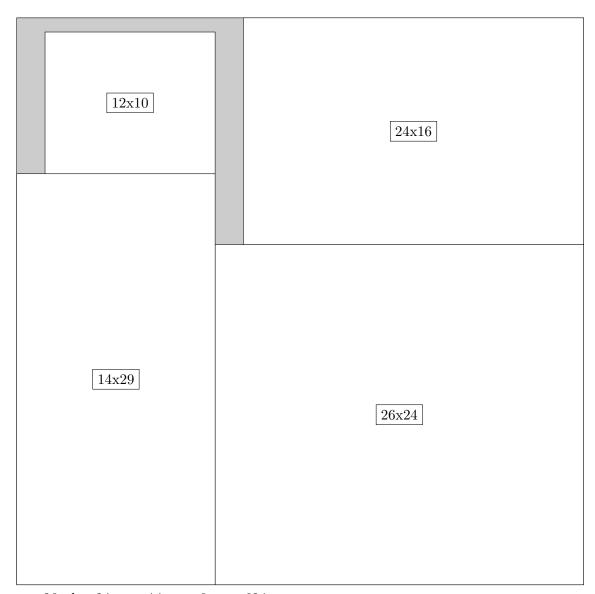
$$\begin{array}{l} w = & 31 \; , \; h = & 8 \; , \; x = & 9 \; , \; y = & 0 \; , \; v = & 248 \\ w = & 30 \; , \; h = & 32 \; , \; x = & 10 \; , \; y = & 8 \; , \; v = & 960 \\ w = & 9 \; , \; h = & 32 \; , \; x = & 0 \; , \; y = & 0 \; , \; v = & 288 \end{array}$$



 $\begin{array}{l} w = \!\! 34 \ , \ h = \!\! 8 \ , \ x = \!\! 6 \ , \ y = \!\! 0 \ , \ v = \!\! 272 \\ w = \!\! 6 \ , \ h = \!\! 8 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 48 \\ w = \!\! 33 \ , \ h = \!\! 32 \ , \ x = \!\! 7 \ , \ y = \!\! 8 \ , \ v = \!\! 1056 \\ w = \!\! 7 \ , \ h = \!\! 28 \ , \ x = \!\! 0 \ , \ y = \!\! 8 \ , \ v = \!\! 196 \end{array}$



 $\begin{array}{l} w = \!\! 34 \; , \; h = \!\! 21 \; , \; x = \!\! 6 \; , \; y = \!\! 0 \; , \; v = \!\! 714 \\ w = \!\! 4 \; , \; h = \!\! 21 \; , \; x = \!\! 2 \; , \; y = \!\! 0 \; , \; v = \!\! 84 \\ w = \!\! 25 \; , \; h = \!\! 19 \; , \; x = \!\! 15 \; , \; y = \!\! 21 \; , \; v = \!\! 475 \\ w = \!\! 13 \; , \; h = \!\! 19 \; , \; x = \!\! 2 \; , \; y = \!\! 21 \; , \; v = \!\! 247 \end{array}$

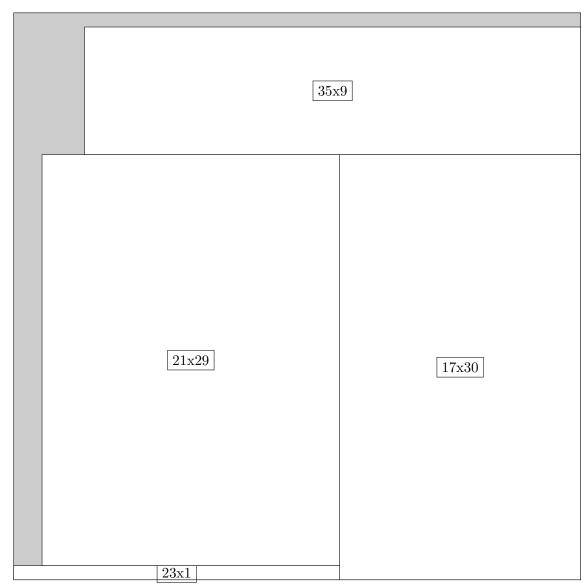


$$\le =26$$
 , h =24 , x =14 , y =0 , v =624

$$\le =24$$
 , h =16 , x =16 , y =24 , v =384

$$\le =14$$
 , $==29$, $==0$, $==0$, $==0$, $==0$, $==0$

$$\le =12$$
 , $h=10$, $x=2$, $y=29$, $v=120$

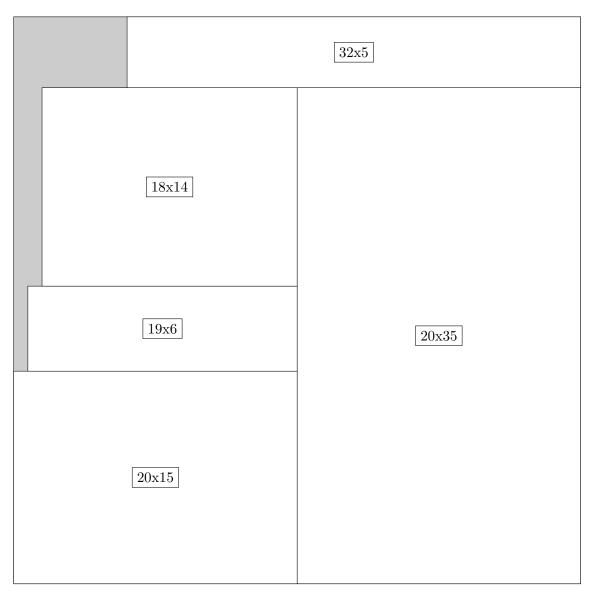


$$\le =17$$
 , h =30 , x =23 , y =0 , v =510

$$\le =23$$
 , h =1 , x =0 , y =0 , v =23

$$\le =21$$
 , $h=29$, $x=2$, $y=1$, $v=609$

$$\le =35$$
 , h =9 , x =5 , y =30 , v =315

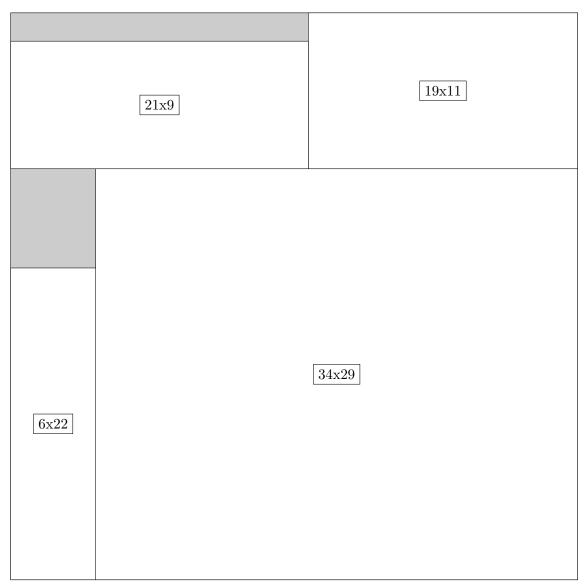


$$w$$
 =20 , h =35 , x =20 , y =0 , v =700

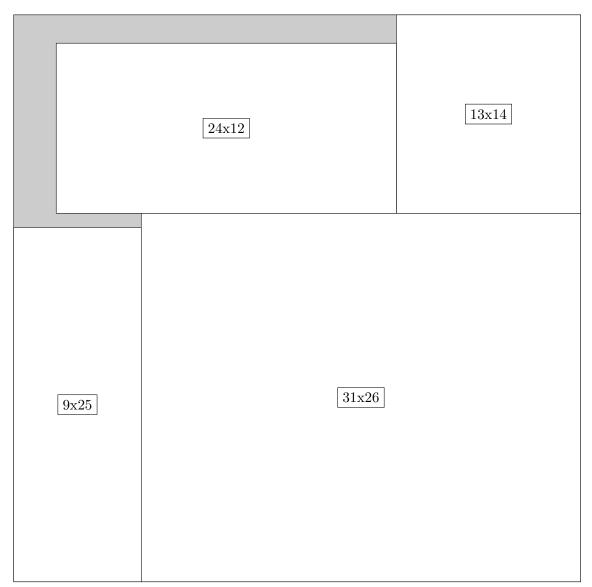
$$\begin{array}{l} w = 20 \ , \ h = \!\! 15 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 300 \\ w = \!\! 19 \ , \ h = \!\! 6 \ , \ x = \!\! 1 \ , \ y = \!\! 15 \ , \ v = \!\! 114 \end{array}$$

$$\mathbf{w}$$
 =18 , h =14 , x =2 , y =21 , v =252

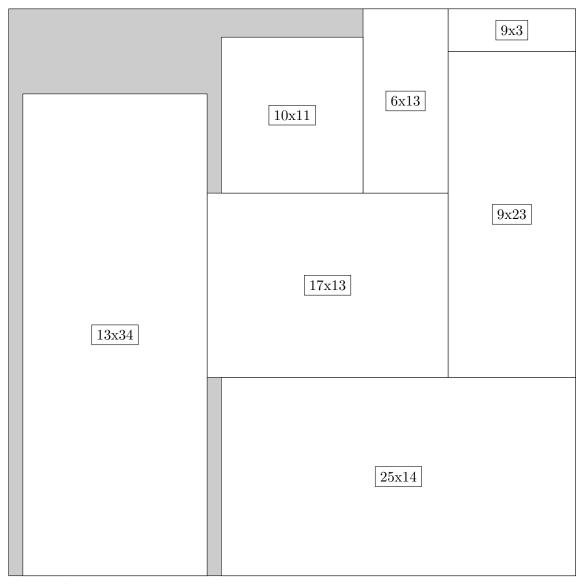
$$w = 32$$
, $h = 5$, $x = 8$, $y = 35$, $v = 160$



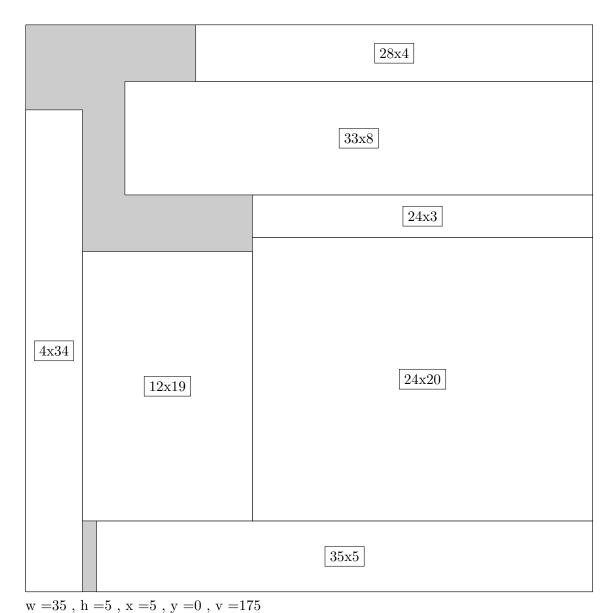
$$\begin{array}{l} w = & 34 \ , \ h = & 29 \ , \ x = & 6 \ , \ y = & 0 \ , \ v = & 986 \\ w = & 6 \ , \ h = & 22 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 132 \\ w = & 19 \ , \ h = & 11 \ , \ x = & 21 \ , \ y = & 29 \ , \ v = & 209 \\ w = & 21 \ , \ h = & 9 \ , \ x = & 0 \ , \ y = & 29 \ , \ v = & 189 \end{array}$$



$$\begin{array}{l} w = & 31 \ , \ h = & 26 \ , \ x = & 9 \ , \ y = & 0 \ , \ v = & 806 \\ w = & 9 \ , \ h = & 25 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 225 \\ w = & 13 \ , \ h = & 14 \ , \ x = & 27 \ , \ y = & 26 \ , \ v = & 182 \\ w = & 24 \ , \ h = & 12 \ , \ x = & 3 \ , \ y = & 26 \ , \ v = & 288 \end{array}$$

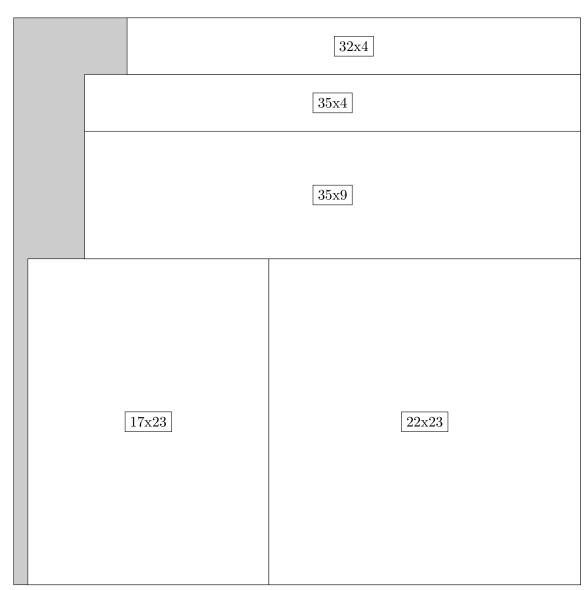


 $\begin{array}{l} w=25 \ , \ h=14 \ , \ x=15 \ , \ y=0 \ , \ v=350 \\ w=9 \ , \ h=23 \ , \ x=31 \ , \ y=14 \ , \ v=207 \\ w=9 \ , \ h=3 \ , \ x=31 \ , \ y=37 \ , \ v=27 \\ w=17 \ , \ h=13 \ , \ x=14 \ , \ y=14 \ , \ v=221 \\ w=6 \ , \ h=13 \ , \ x=25 \ , \ y=27 \ , \ v=78 \\ w=10 \ , \ h=11 \ , \ x=15 \ , \ y=27 \ , \ v=110 \\ w=13 \ , \ h=34 \ , \ x=1 \ , \ y=0 \ , \ v=442 \end{array}$



$$w = 28$$
, $h = 4$, $x = 12$, $y = 36$, $v = 112$

$$w = 4$$
, $h = 34$, $x = 0$, $y = 0$, $v = 136$



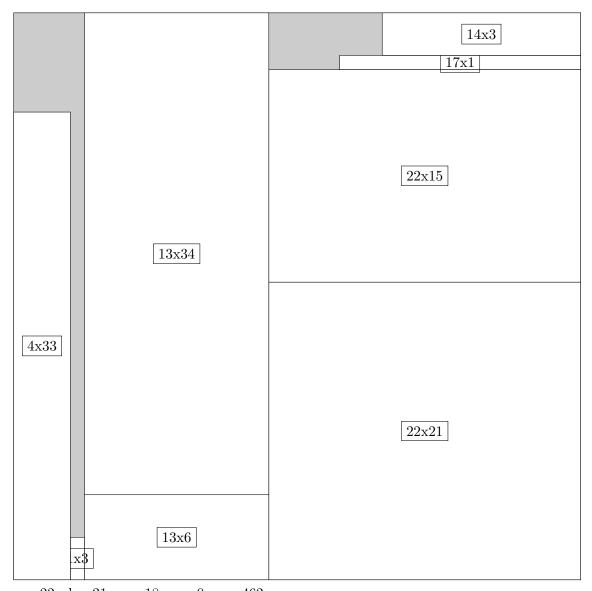
$$w=\!22$$
 , $h=\!23$, $x=\!18$, $y=\!0$, $v=\!506$

$$\le =17$$
 , h =23 , x =1 , y =0 , v =391

$$\le =35$$
 , h =9 , x =5 , y =23 , v =315

$$\le =35$$
 , h =4 , x =5 , y =32 , v =140

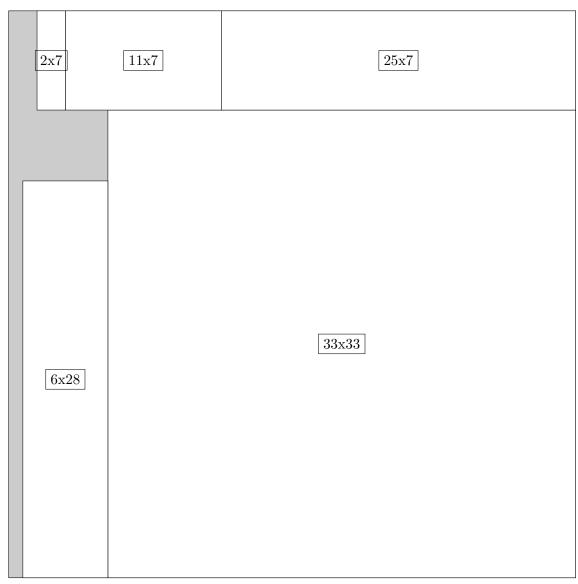
$$\mathbf{w}$$
 =32 , h =4 , x =8 , y =36 , v =128



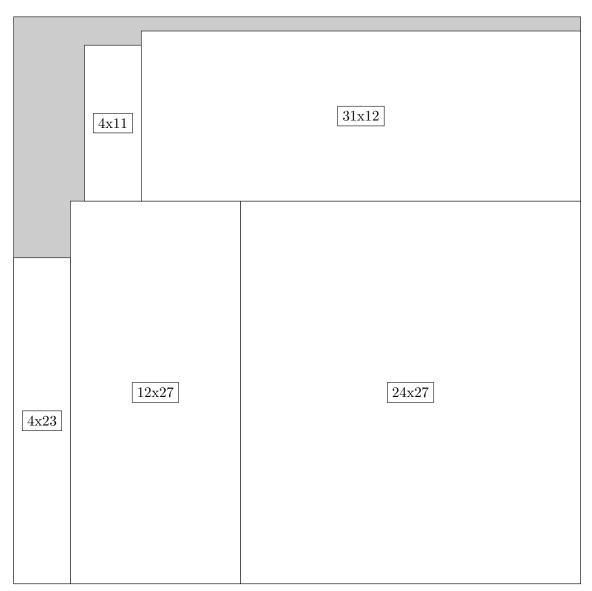
$$\begin{array}{l} w=22 \;,\; h=21 \;,\; x=18 \;,\; y=0 \;,\; v=462 \\ w=22 \;,\; h=15 \;,\; x=18 \;,\; y=21 \;,\; v=330 \\ w=17 \;,\; h=1 \;,\; x=23 \;,\; y=36 \;,\; v=17 \\ w=14 \;,\; h=3 \;,\; x=26 \;,\; y=37 \;,\; v=42 \\ w=13 \;,\; h=6 \;,\; x=5 \;,\; y=0 \;,\; v=78 \\ w=1 \;,\; h=3 \;,\; x=4 \;,\; y=0 \;,\; v=3 \\ w=13 \;,\; h=34 \;,\; x=5 \;,\; y=6 \;,\; v=442 \\ w=4 \;,\; h=33 \;,\; x=0 \;,\; y=0 \;,\; v=132 \end{array}$$

29x12	9x10
31x9	9x12
31x19	9x18

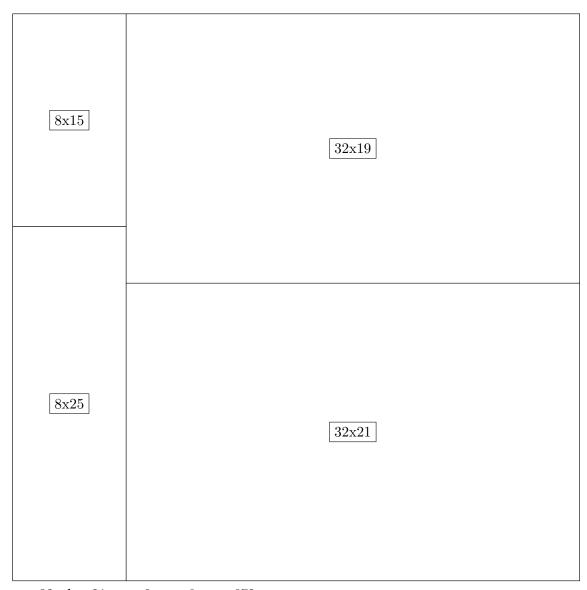
 $\begin{array}{l} w=9\ ,\, h=18\ ,\, x=31\ ,\, y=0\ ,\, v=162\\ w=9\ ,\, h=12\ ,\, x=31\ ,\, y=18\ ,\, v=108\\ w=9\ ,\, h=10\ ,\, x=31\ ,\, y=30\ ,\, v=90\\ w=31\ ,\, h=19\ ,\, x=0\ ,\, y=0\ ,\, v=589\\ w=31\ ,\, h=9\ ,\, x=0\ ,\, y=19\ ,\, v=279\\ w=29\ ,\, h=12\ ,\, x=2\ ,\, y=28\ ,\, v=348 \end{array}$



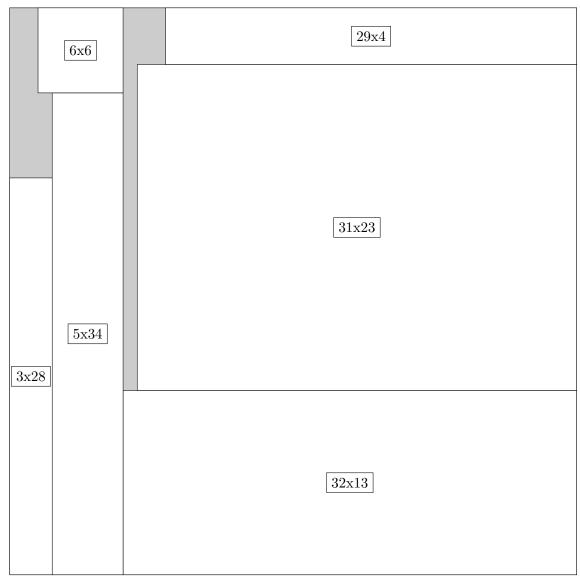
 $\begin{array}{l} w = \! 33 \; , \; h = \! 33 \; , \; x = \! 7 \; , \; y = \! 0 \; , \; v = \! 1089 \\ w = \! 6 \; , \; h = \! 28 \; , \; x = \! 1 \; , \; y = \! 0 \; , \; v = \! 168 \\ w = \! 25 \; , \; h = \! 7 \; , \; x = \! 15 \; , \; y = \! 33 \; , \; v = \! 175 \\ w = \! 11 \; , \; h = \! 7 \; , \; x = \! 4 \; , \; y = \! 33 \; , \; v = \! 77 \\ w = \! 2 \; , \; h = \! 7 \; , \; x = \! 2 \; , \; y = \! 33 \; , \; v = \! 14 \end{array}$



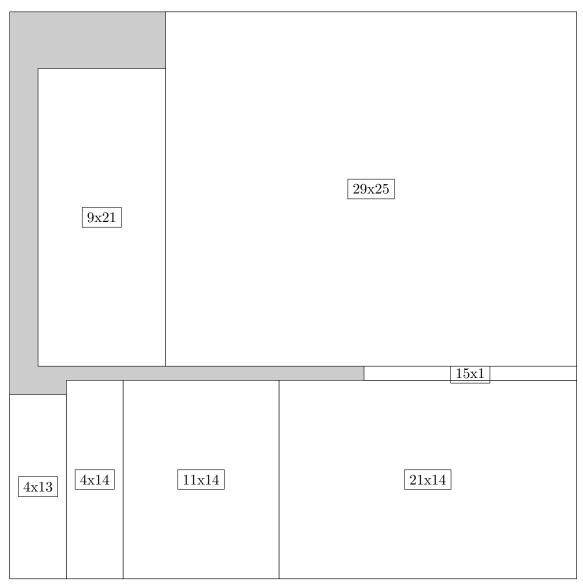
 $\begin{array}{l} w = 24 \; , \; h = 27 \; , \; x = 16 \; , \; y = 0 \; , \; v = 648 \\ w = 12 \; , \; h = 27 \; , \; x = 4 \; , \; y = 0 \; , \; v = 324 \\ w = 4 \; , \; h = 23 \; , \; x = 0 \; , \; y = 0 \; , \; v = 92 \\ w = 31 \; , \; h = 12 \; , \; x = 9 \; , \; y = 27 \; , \; v = 372 \\ w = 4 \; , \; h = 11 \; , \; x = 5 \; , \; y = 27 \; , \; v = 44 \end{array}$



 $\begin{array}{l} w = & 32 \ , \ h = & 21 \ , \ x = & 8 \ , \ y = & 0 \ , \ v = & 672 \\ w = & 32 \ , \ h = & 19 \ , \ x = & 8 \ , \ y = & 21 \ , \ v = & 608 \\ w = & 8 \ , \ h = & 25 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 200 \\ w = & 8 \ , \ h = & 15 \ , \ x = & 0 \ , \ y = & 25 \ , \ v = & 120 \end{array}$



 $\begin{array}{l} w = 32 \; , \; h = 13 \; , \; x = 8 \; , \; y = 0 \; , \; v = 416 \\ w = 31 \; , \; h = 23 \; , \; x = 9 \; , \; y = 13 \; , \; v = 713 \\ w = 29 \; , \; h = 4 \; , \; x = 11 \; , \; y = 36 \; , \; v = 116 \\ w = 5 \; , \; h = 34 \; , \; x = 3 \; , \; y = 0 \; , \; v = 170 \\ w = 3 \; , \; h = 28 \; , \; x = 0 \; , \; y = 0 \; , \; v = 84 \\ w = 6 \; , \; h = 6 \; , \; x = 2 \; , \; y = 34 \; , \; v = 36 \end{array}$



w =21, h =14, x =19, y =0, v =294

 $w=\!15$, $h=\!1$, $x=\!25$, $y=\!14$, $v=\!15$

w = 11, h = 14, x = 8, y = 0, v = 154

 \mathbf{w} =4 , h =14 , x =4 , y =0 , v =56

 \mathbf{w} =4 , h =13 , x =0 , y =0 , v =52

 $\le =29$, h=25 , x=11 , y=15 , v=725

w =9 , h =21 , x =2 , y =15 , v =189