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

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>

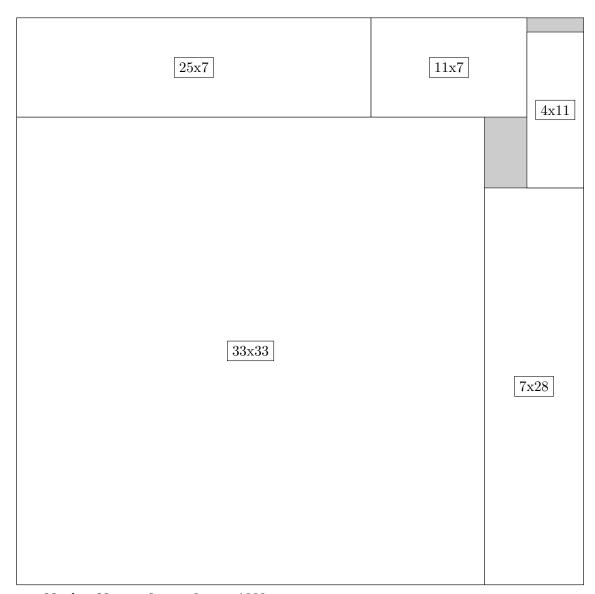
LBWithCut: $\underline{\mathbf{19}}$ NodeCut: $\underline{\mathbf{0}}$

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

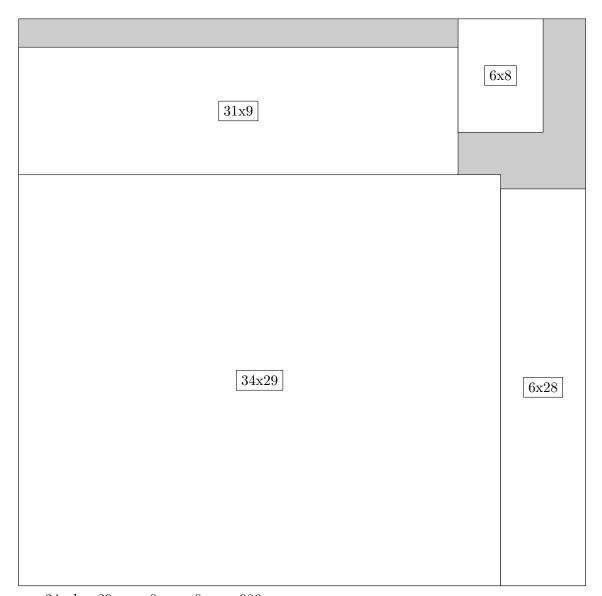
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{19}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.290 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.078 \ s} \\ {\rm TotalTime:} \ \underline{0.430 \ s} \end{array}$

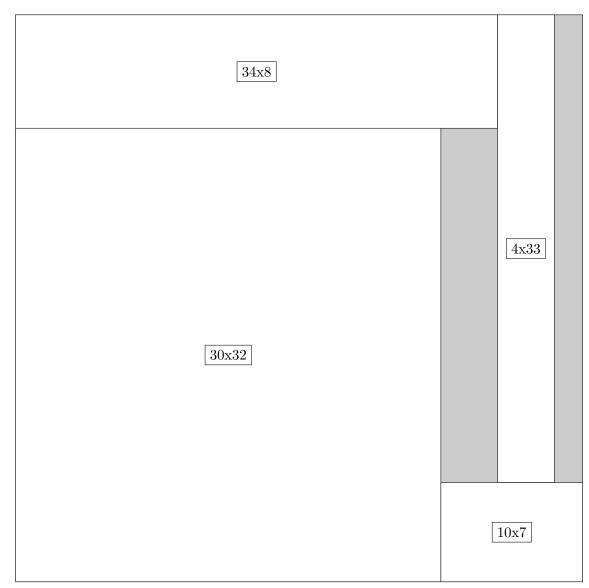


 $\begin{array}{l} w = 33 \;, \; h = 33 \;, \; x = 0 \;, \; y = 0 \;, \; v = 1089 \\ w = 7 \;, \; h = 28 \;, \; x = 33 \;, \; y = 0 \;, \; v = 196 \\ w = 25 \;, \; h = 7 \;, \; x = 0 \;, \; y = 33 \;, \; v = 175 \\ w = 11 \;, \; h = 7 \;, \; x = 25 \;, \; y = 33 \;, \; v = 77 \\ w = 4 \;, \; h = 11 \;, \; x = 36 \;, \; y = 28 \;, \; v = 44 \end{array}$

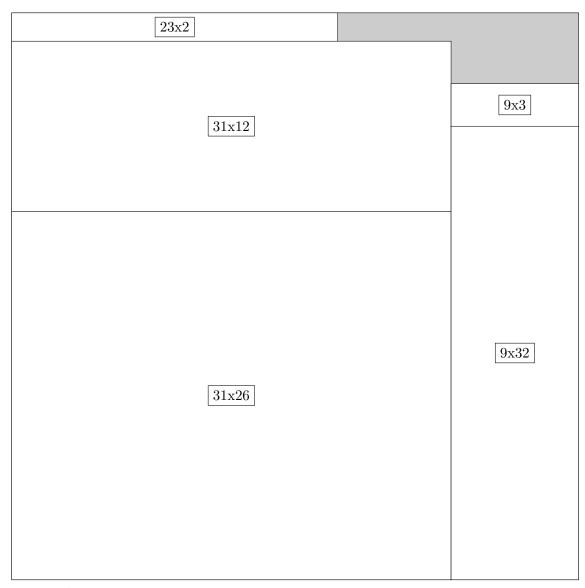


$$\begin{array}{l} w = \!\! 34 \ , \ h = \!\! 29 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 986 \\ w = \!\! 31 \ , \ h = \!\! 9 \ , \ x = \!\! 0 \ , \ y = \!\! 29 \ , \ v = \!\! 279 \end{array}$$

$$w = 6$$
, $h = 28$, $x = 34$, $y = 0$, $v = 168$



$$\begin{array}{l} w = & 30 \;,\; h = & 32 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 960 \\ w = & 34 \;,\; h = & 8 \;,\; x = & 0 \;,\; y = & 32 \;,\; v = & 272 \\ w = & 4 \;,\; h = & 33 \;,\; x = & 34 \;,\; y = & 7 \;,\; v = & 132 \\ w = & 10 \;,\; h = & 7 \;,\; x = & 30 \;,\; y = & 0 \;,\; v = & 70 \end{array}$$

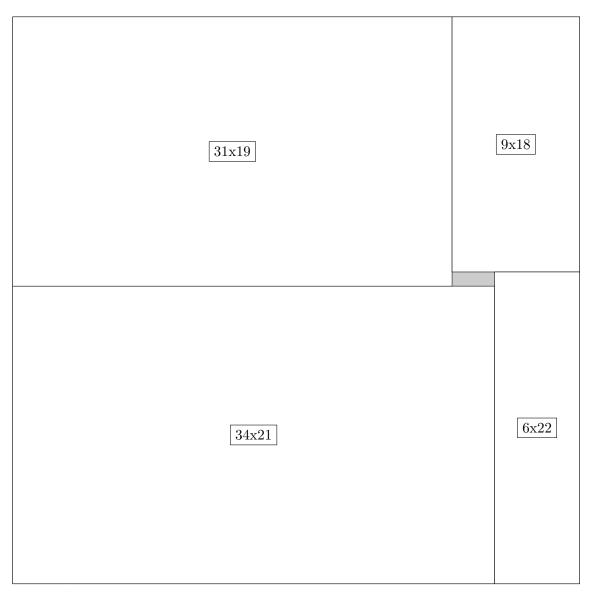


 $\begin{array}{l} w = \! 31 \; , \; h = \! 26 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 806 \\ w = \! 31 \; , \; h = \! 12 \; , \; x = \! 0 \; , \; y = \! 26 \; , \; v = \! 372 \\ w = \! 9 \; , \; h = \! 32 \; , \; x = \! 31 \; , \; y = \! 0 \; , \; v = \! 288 \\ w = \! 23 \; , \; h = \! 2 \; , \; x = \! 0 \; , \; y = \! 38 \; , \; v = \! 46 \\ w = \! 9 \; , \; h = \! 3 \; , \; x = \! 31 \; , \; y = \! 32 \; , \; v = \! 27 \end{array}$

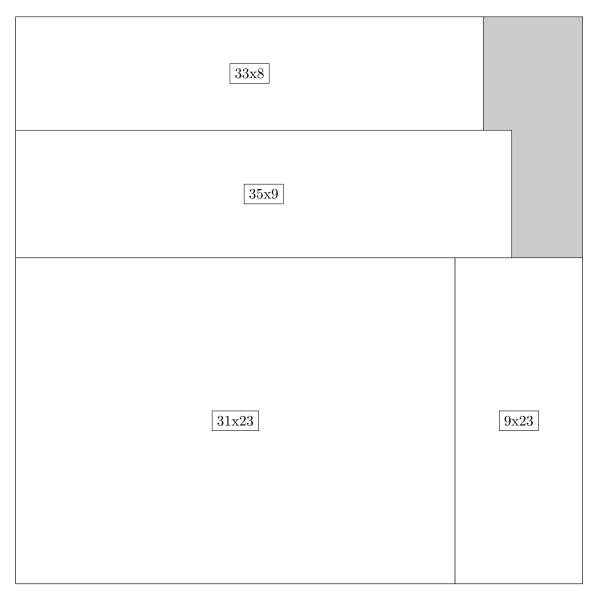
24x3	
29x12	9x12
	10x11
29x25	11x14

$$\begin{array}{l} w=29 \;,\; h=25 \;,\; x=0 \;,\; y=0 \;,\; v=725 \\ w=29 \;,\; h=12 \;,\; x=0 \;,\; y=25 \;,\; v=348 \\ w=11 \;,\; h=14 \;,\; x=29 \;,\; y=0 \;,\; v=154 \\ w=10 \;,\; h=11 \;,\; x=29 \;,\; y=14 \;,\; v=110 \\ w=9 \;,\; h=12 \;,\; x=29 \;,\; y=25 \;,\; v=108 \end{array}$$

 $\le =24$, h =3 , x =0 , y =37 , v =72



$$\begin{array}{l} w = 34 \; , \; h = \!\! 21 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 714 \\ w = \!\! 31 \; , \; h = \!\! 19 \; , \; x = \!\! 0 \; , \; y = \!\! 21 \; , \; v = \!\! 589 \\ w = \!\! 9 \; , \; h = \!\! 18 \; , \; x = \!\! 31 \; , \; y = \!\! 22 \; , \; v = \!\! 162 \\ w = \!\! 6 \; , \; h = \!\! 22 \; , \; x = \!\! 34 \; , \; y = \!\! 0 \; , \; v = \!\! 132 \end{array}$$



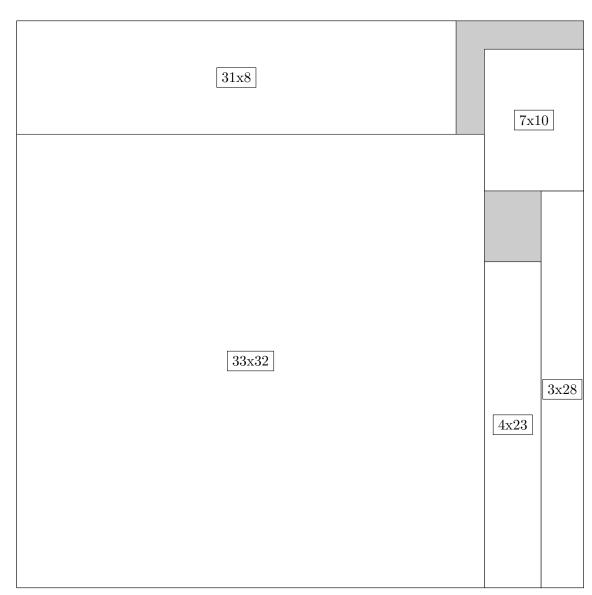
$$\begin{array}{l} w = & 31 \ , \ h = & 23 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 713 \\ w = & 33 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 32 \ , \ v = & 264 \\ w = & 9 \ , \ h = & 23 \ , \ x = & 31 \ , \ y = & 0 \ , \ v = & 207 \\ w = & 35 \ , \ h = & 9 \ , \ x = & 0 \ , \ y = & 23 \ , \ v = & 315 \end{array}$$

32x19	8x15
32x21	8x25

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

32x13		4x13	
24x 27	12x27		4x34

$$\begin{array}{l} w=24\;,\; h=27\;,\; x=0\;,\; y=0\;,\; v=648\\ w=32\;,\; h=13\;,\; x=0\;,\; y=27\;,\; v=416\\ w=12\;,\; h=27\;,\; x=24\;,\; y=0\;,\; v=324\\ w=4\;,\; h=34\;,\; x=36\;,\; y=0\;,\; v=136\\ w=4\;,\; h=13\;,\; x=32\;,\; y=27\;,\; v=52 \end{array}$$

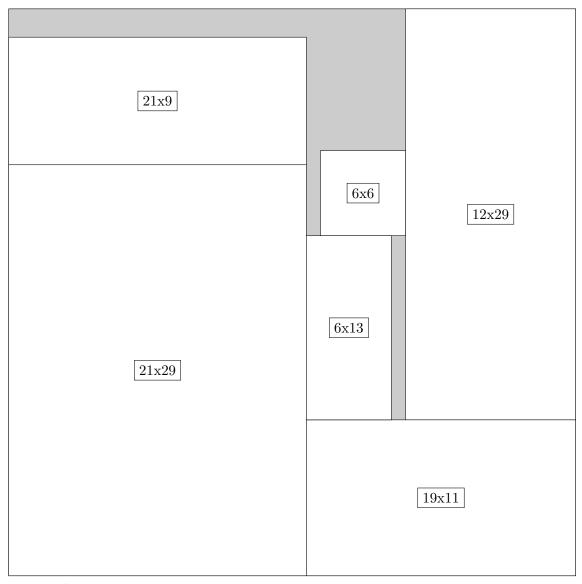


$$\begin{array}{l} w = \! 33 \ , \ h = \! 32 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 1056 \\ w = \! 31 \ , \ h = \! 8 \ , \ x = \! 0 \ , \ y = \! 32 \ , \ v = \! 248 \end{array}$$

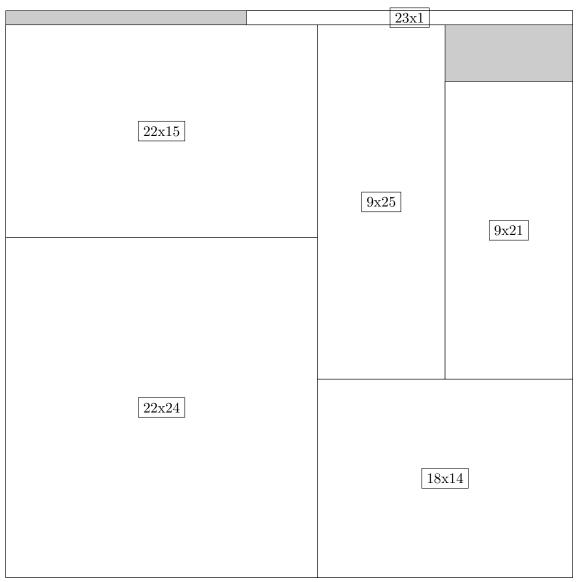
$$\le 4$$
 , h =
23 , x =
33 , y =
0 , v =
92

$$\mathbf{w}=\!3$$
 , $\mathbf{h}=\!28$, $\mathbf{x}=\!37$, $\mathbf{y}=\!0$, $\mathbf{v}=\!84$

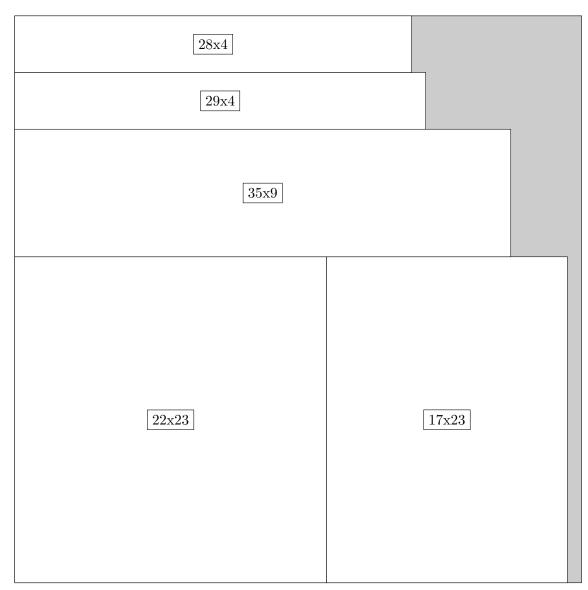
$$w=7$$
 , $h=\!10$, $x=\!33$, $y=\!28$, $v=\!70$



$$\begin{array}{l} w=21 \ , \ h=29 \ , \ x=0 \ , \ y=0 \ , \ v=609 \\ w=12 \ , \ h=29 \ , \ x=28 \ , \ y=11 \ , \ v=348 \\ w=19 \ , \ h=11 \ , \ x=21 \ , \ y=0 \ , \ v=209 \\ w=21 \ , \ h=9 \ , \ x=0 \ , \ y=29 \ , \ v=189 \\ w=6 \ , \ h=13 \ , \ x=21 \ , \ y=11 \ , \ v=78 \\ w=6 \ , \ h=6 \ , \ x=22 \ , \ y=24 \ , \ v=36 \end{array}$$



 $\begin{array}{l} w=22\;,\; h=24\;,\; x=0\;,\; y=0\;,\; v=528\\ w=22\;,\; h=15\;,\; x=0\;,\; y=24\;,\; v=330\\ w=18\;,\; h=14\;,\; x=22\;,\; y=0\;,\; v=252\\ w=9\;,\; h=25\;,\; x=22\;,\; y=14\;,\; v=225\\ w=9\;,\; h=21\;,\; x=31\;,\; y=14\;,\; v=189\\ w=23\;,\; h=1\;,\; x=17\;,\; y=39\;,\; v=23 \end{array}$



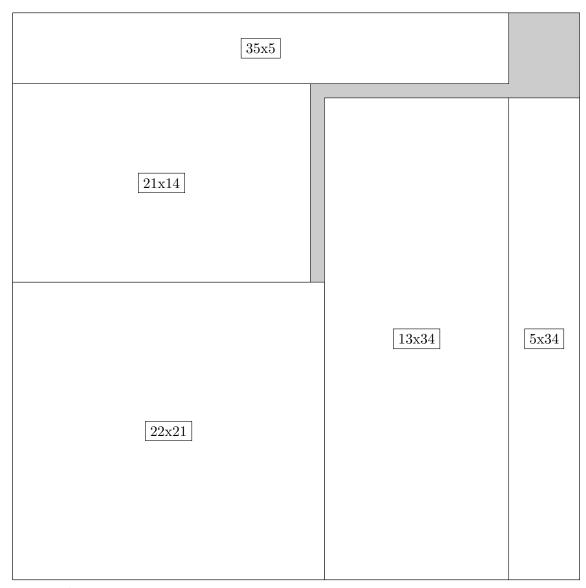
$$w = 22$$
, $h = 23$, $x = 0$, $y = 0$, $v = 506$

$$\le =17$$
 , $= 23$, $= 22$, $= 0$, $= 391$

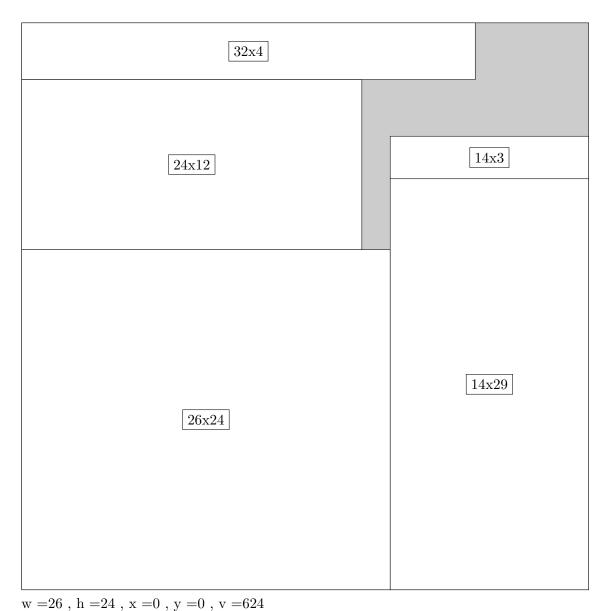
$$\le =35$$
 , h =9 , x =0 , y =23 , v =315

$$\le =29$$
 , h =4 , x =0 , y =32 , v =116

$$w = 28$$
, $h = 4$, $x = 0$, $y = 36$, $v = 112$

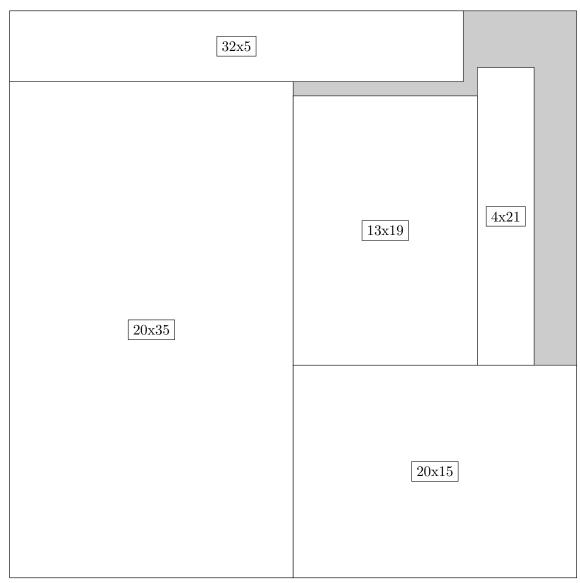


$$\begin{array}{l} w=22\;,\; h=21\;,\; x=0\;,\; y=0\;,\; v=462\\ w=13\;,\; h=34\;,\; x=22\;,\; y=0\;,\; v=442\\ w=21\;,\; h=14\;,\; x=0\;,\; y=21\;,\; v=294\\ w=35\;,\; h=5\;,\; x=0\;,\; y=35\;,\; v=175\\ w=5\;,\; h=34\;,\; x=35\;,\; y=0\;,\; v=170 \end{array}$$



$$\le =32$$
 , h =4 , x =0 , y =36 , v =128

$$w = 14$$
, $h = 3$, $x = 26$, $y = 29$, $v = 42$



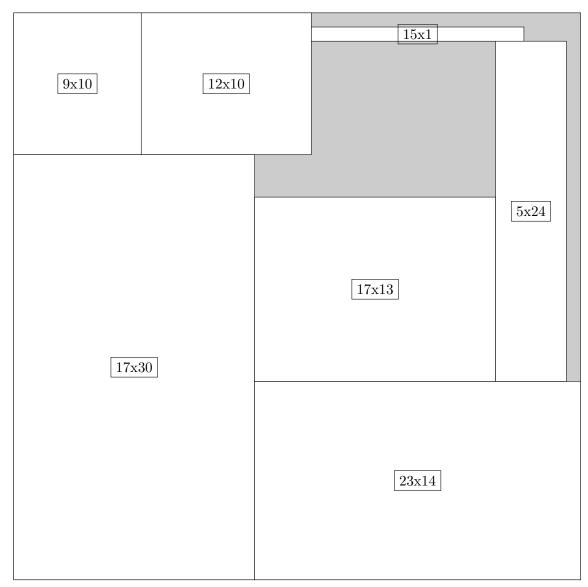
$$w = 20$$
, $h = 35$, $x = 0$, $y = 0$, $v = 700$

$$\le =20$$
 , h =15 , x =20 , y =0 , v =300

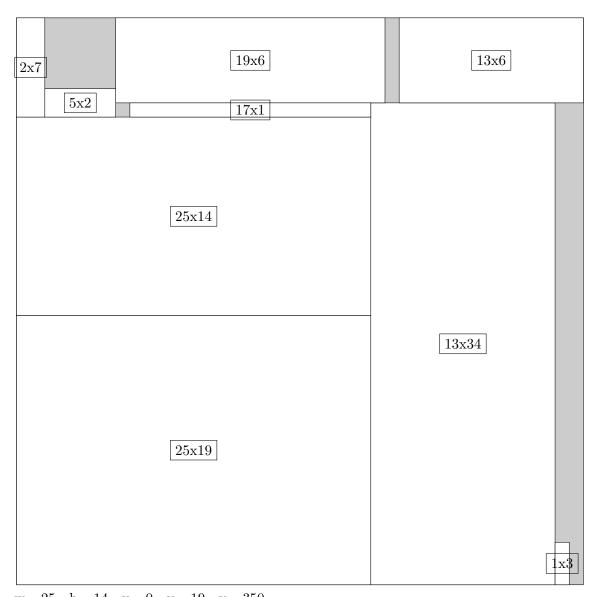
$$\le =13$$
 , h =19 , x =20 , y =15 , v =247

$$\le =32$$
 , h =5 , x =0 , y =35 , v =160

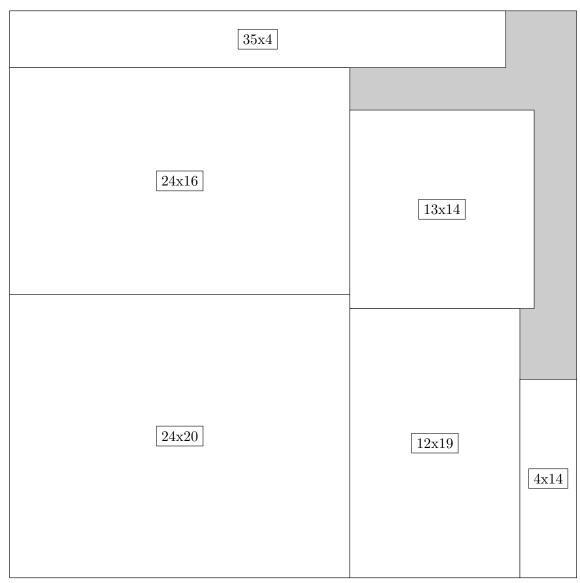
$$w = 4$$
, $h = 21$, $x = 33$, $y = 15$, $v = 84$



 $\begin{array}{l} w=17 \;,\; h=30 \;,\; x=0 \;,\; y=0 \;,\; v=510 \\ w=23 \;,\; h=14 \;,\; x=17 \;,\; y=0 \;,\; v=322 \\ w=17 \;,\; h=13 \;,\; x=17 \;,\; y=14 \;,\; v=221 \\ w=9 \;,\; h=10 \;,\; x=0 \;,\; y=30 \;,\; v=90 \\ w=12 \;,\; h=10 \;,\; x=9 \;,\; y=30 \;,\; v=120 \\ w=5 \;,\; h=24 \;,\; x=34 \;,\; y=14 \;,\; v=120 \\ w=15 \;,\; h=1 \;,\; x=21 \;,\; y=38 \;,\; v=15 \end{array}$



$$\begin{array}{l} w=25 \;,\; h=14 \;,\; x=0 \;,\; y=19 \;,\; v=350 \\ w=25 \;,\; h=19 \;,\; x=0 \;,\; y=0 \;,\; v=475 \\ w=13 \;,\; h=34 \;,\; x=25 \;,\; y=0 \;,\; v=442 \\ w=19 \;,\; h=6 \;,\; x=7 \;,\; y=34 \;,\; v=114 \\ w=13 \;,\; h=6 \;,\; x=27 \;,\; y=34 \;,\; v=78 \\ w=17 \;,\; h=1 \;,\; x=8 \;,\; y=33 \;,\; v=17 \\ w=2 \;,\; h=7 \;,\; x=0 \;,\; y=33 \;,\; v=14 \\ w=5 \;,\; h=2 \;,\; x=2 \;,\; y=33 \;,\; v=10 \\ w=1 \;,\; h=3 \;,\; x=38 \;,\; y=0 \;,\; v=3 \end{array}$$



$$\le =24$$
 , $h=16$, $x=0$, $y=20$, $v=384$

$$\mathbf{w}$$
 =24 , h =20 , x =0 , y =0 , v =480

$$\le =12$$
 , $= 19$, $= 24$, $y = 0$, $v = 228$

$$\mathbf{w}$$
 =13 , h =14 , x =24 , y =19 , v =182

$$\le =35$$
 , h =4 , x =0 , y =36 , v =140

$$\mathbf{w}$$
 =4 , h =14 , x =36 , y =0 , v =56