${\bf ClassName:}\ {\bf Class\_03.2bp\text{-}36}$ 

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

TypeNum: <u>79</u> Num: <u>80</u> OutS: <u>32000</u> InS: <u>29037</u> Rate: <u>0.907</u> UB: <u>20</u> LB0: <u>20</u>

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

LB: **20** 

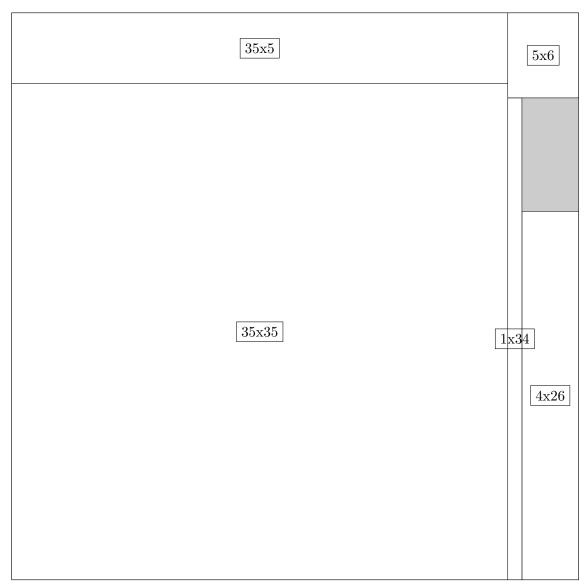
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

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** 

TimeOnInitSolution: 17.830 s

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 17.971 s



 $\le 35$  ,  $\le 35$  ,  $\ge 35$  ,  $\ge 10$  ,  $\ge$ 

w = 35, h = 5, x = 0, y = 35, v = 175

 $\mathbf{w}$  =4 , h =26 , x =36 , y =0 , v =104

 $\mathbf{w}$  =1 , h =34 , x =35 , y =0 , v =34

 $\mathbf{w}$  =5 , h =6 , x =35 , y =34 , v =30

28x9	[11x9]	
32x31	8x21	

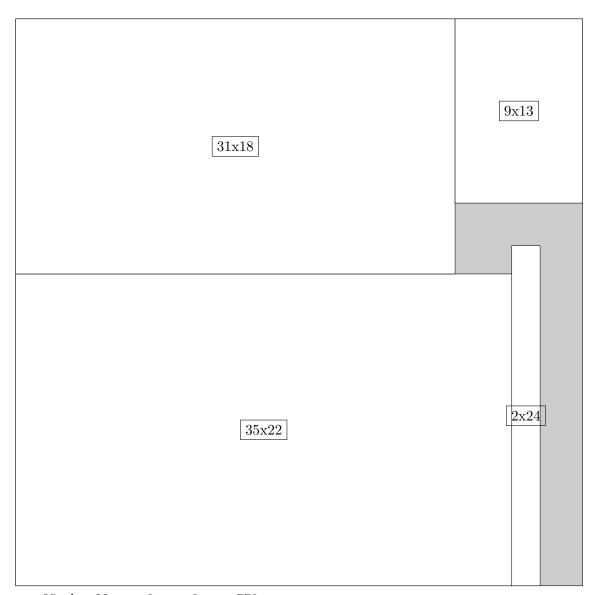
$$\begin{array}{l} w = & 32 \ , \ h = & 31 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 992 \\ w = & 28 \ , \ h = & 9 \ , \ x = & 0 \ , \ y = & 31 \ , \ v = & 252 \\ w = & 8 \ , \ h = & 21 \ , \ x = & 32 \ , \ y = & 0 \ , \ v = & 168 \\ w = & 11 \ , \ h = & 9 \ , \ x = & 28 \ , \ y = & 31 \ , \ v = & 99 \end{array}$$

31x5		
27x35	4x35	9x34

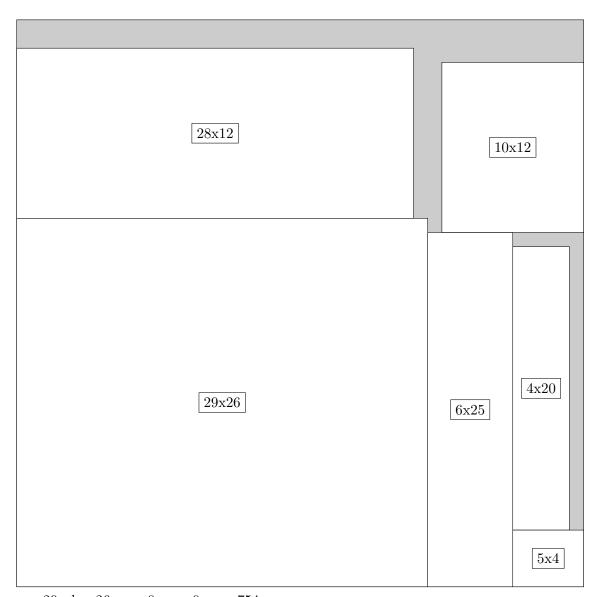
 $\begin{array}{l} w=27 \;,\; h=35 \;,\; x=0 \;,\; y=0 \;,\; v=945 \\ w=31 \;,\; h=5 \;,\; x=0 \;,\; y=35 \;,\; v=155 \\ w=9 \;,\; h=34 \;,\; x=31 \;,\; y=6 \;,\; v=306 \\ w=4 \;,\; h=35 \;,\; x=27 \;,\; y=0 \;,\; v=140 \end{array}$ 

21x6	15x5	
$27 \mathrm{x} 34$	7x34	6x34

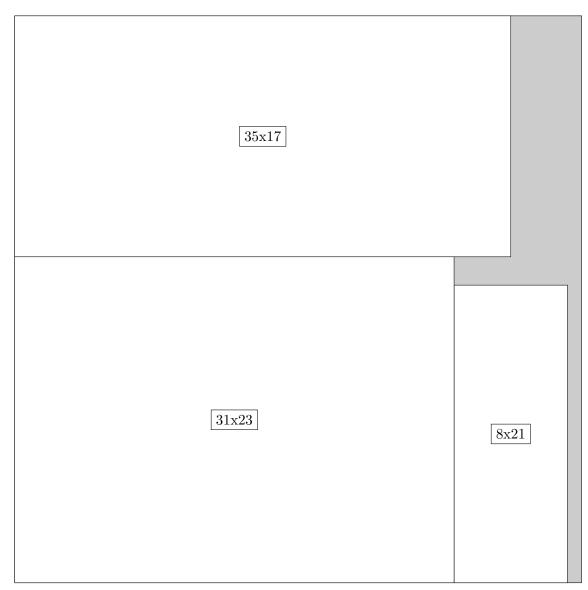
 $\begin{array}{l} w=27 \;,\; h=34 \;,\; x=0 \;,\; y=0 \;,\; v=918 \\ w=7 \;,\; h=34 \;,\; x=27 \;,\; y=0 \;,\; v=238 \\ w=6 \;,\; h=34 \;,\; x=34 \;,\; y=0 \;,\; v=204 \\ w=21 \;,\; h=6 \;,\; x=0 \;,\; y=34 \;,\; v=126 \\ w=15 \;,\; h=5 \;,\; x=21 \;,\; y=34 \;,\; v=75 \end{array}$ 



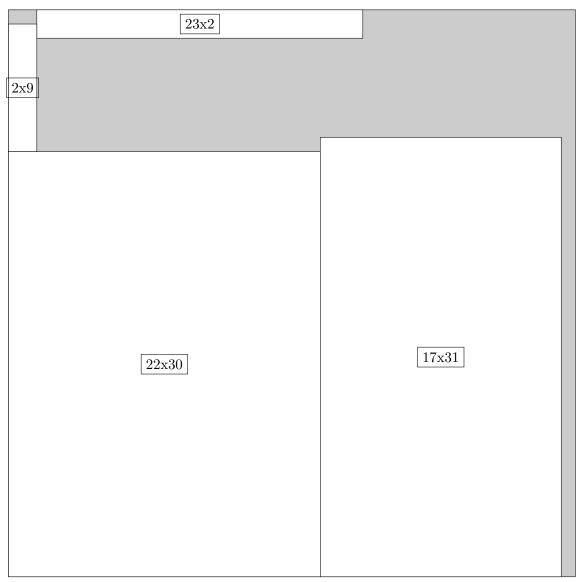
 $\begin{array}{l} w = & 35 \ , \ h = & 22 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 770 \\ w = & 31 \ , \ h = & 18 \ , \ x = & 0 \ , \ y = & 22 \ , \ v = & 558 \\ w = & 9 \ , \ h = & 13 \ , \ x = & 31 \ , \ y = & 27 \ , \ v = & 117 \\ w = & 2 \ , \ h = & 24 \ , \ x = & 35 \ , \ y = & 0 \ , \ v = & 48 \end{array}$ 



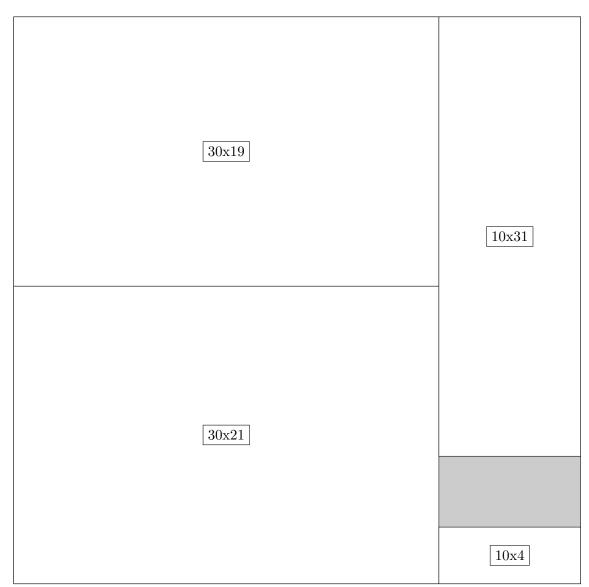
$$\begin{array}{l} w=29\;,\; h=26\;,\; x=0\;,\; y=0\;,\; v=754\\ w=6\;,\; h=25\;,\; x=29\;,\; y=0\;,\; v=150\\ w=28\;,\; h=12\;,\; x=0\;,\; y=26\;,\; v=336\\ w=10\;,\; h=12\;,\; x=30\;,\; y=25\;,\; v=120\\ w=4\;,\; h=20\;,\; x=35\;,\; y=4\;,\; v=80\\ w=5\;,\; h=4\;,\; x=35\;,\; y=0\;,\; v=20 \end{array}$$



$$\begin{array}{l} w = \! 35 \; , \; h = \! 17 \; , \; x = \! 0 \; , \; y = \! 23 \; , \; v = \! 595 \\ w = \! 8 \; , \; h = \! 21 \; , \; x = \! 31 \; , \; y = \! 0 \; , \; v = \! 168 \\ w = \! 31 \; , \; h = \! 23 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 713 \end{array}$$



$$\begin{array}{l} w = 22 \ , \ h = 30 \ , \ x = 0 \ , \ y = 0 \ , \ v = 660 \\ w = 17 \ , \ h = 31 \ , \ x = 22 \ , \ y = 0 \ , \ v = 527 \\ w = 23 \ , \ h = 2 \ , \ x = 2 \ , \ y = 38 \ , \ v = 46 \\ w = 2 \ , \ h = 9 \ , \ x = 0 \ , \ y = 30 \ , \ v = 18 \end{array}$$

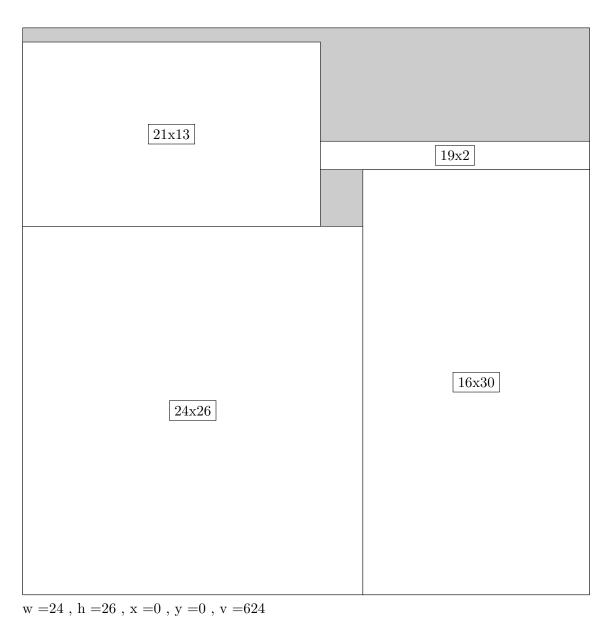


$$\le 30$$
 , h =21 , x =0 , y =0 , v =630

$$w = \! 30 \ , \, h = \! 19 \ , \, x = \! 0 \ , \, y = \! 21 \ , \, v = \! 570$$

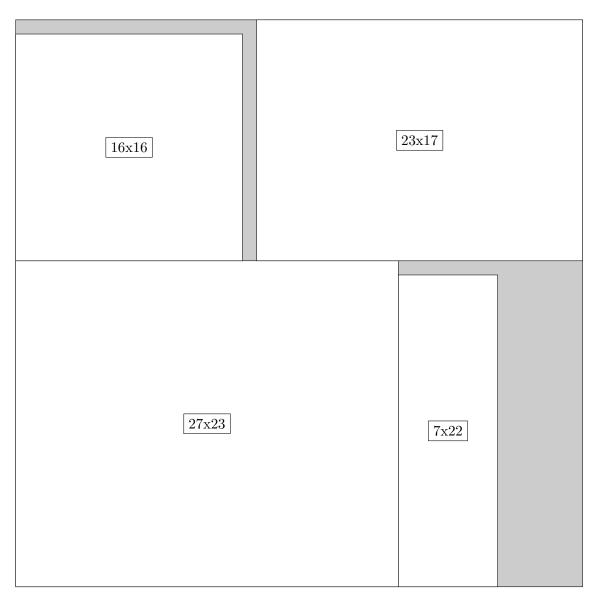
$$\le =10$$
 , h =31 , x =30 , y =9 , v =310

$$\mathbf{w}$$
 =10 , h =4 , x =30 , y =0 , v =40



$$w = 21$$
,  $h = 13$ ,  $x = 0$ ,  $y = 26$ ,  $v = 273$ 

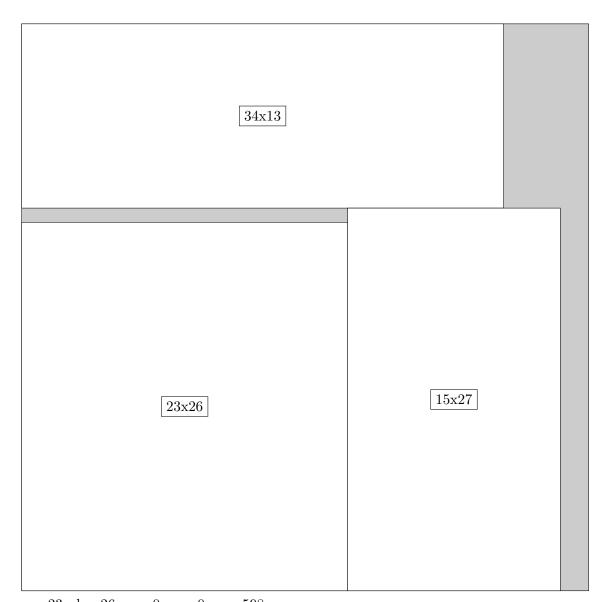
$$\le =19$$
 , h =2 , x =21 , y =30 , v =38



$$\begin{array}{l} w = \!\! 27 \ , \ h = \!\! 23 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 621 \\ w = \!\! 23 \ , \ h = \!\! 17 \ , \ x = \!\! 17 \ , \ y = \!\! 23 \ , \ v = \!\! 391 \end{array}$$

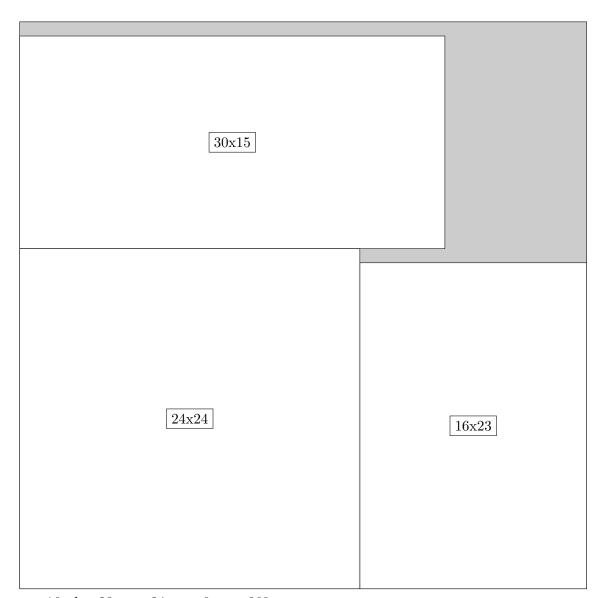
$$\le =16$$
 ,  $h$  =16 ,  $x$  =0 ,  $y$  =23 ,  $v$  =256

$$w = 7$$
,  $h = 22$ ,  $x = 27$ ,  $y = 0$ ,  $v = 154$ 

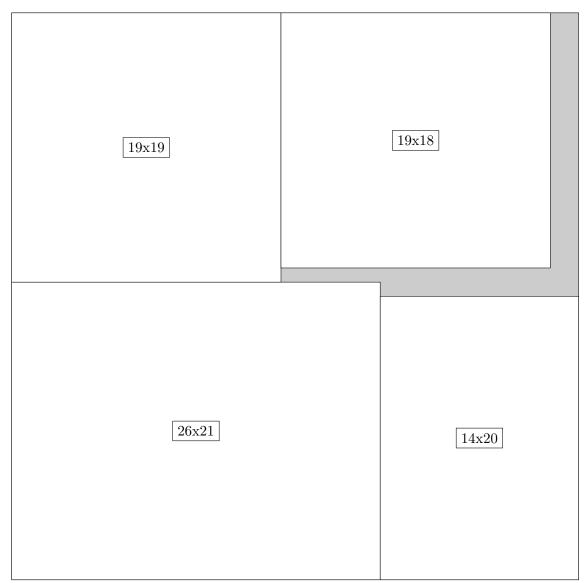


$$\begin{array}{l} w = \! 23 \ , \ h = \! 26 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 598 \\ w = \! 34 \ , \ h = \! 13 \ , \ x = \! 0 \ , \ y = \! 27 \ , \ v = \! 442 \end{array}$$

$$\le =15$$
 , h =27 , x =23 , y =0 , v =405



$$\begin{array}{l} w = 16 \ , \ h = 23 \ , \ x = 24 \ , \ y = 0 \ , \ v = 368 \\ w = 30 \ , \ h = 15 \ , \ x = 0 \ , \ y = 24 \ , \ v = 450 \\ w = 24 \ , \ h = 24 \ , \ x = 0 \ , \ y = 0 \ , \ v = 576 \end{array}$$

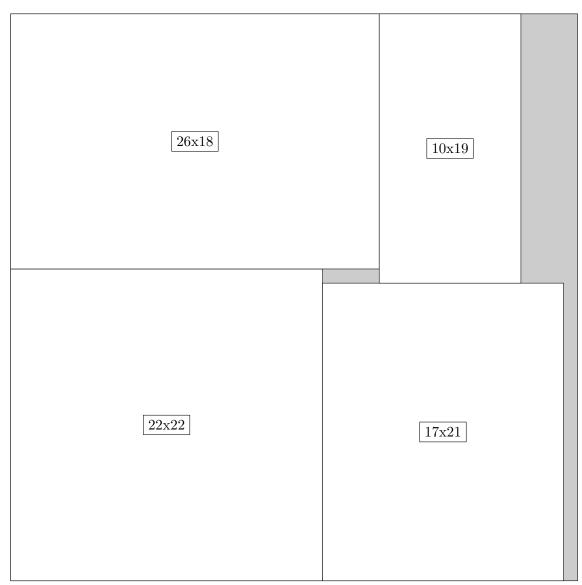


$$\le =26$$
 ,  $h$  =21 ,  $x$  =0 ,  $y$  =0 ,  $v$  =546

$$w$$
 =19 ,  $h$  =19 ,  $x$  =0 ,  $y$  =21 ,  $v$  =361

$$\le =19$$
 ,  $h$  =18 ,  $x$  =19 ,  $y$  =22 ,  $v$  =342

$$\le =14$$
 ,  $h=20$  ,  $x=26$  ,  $y=0$  ,  $v=280$ 

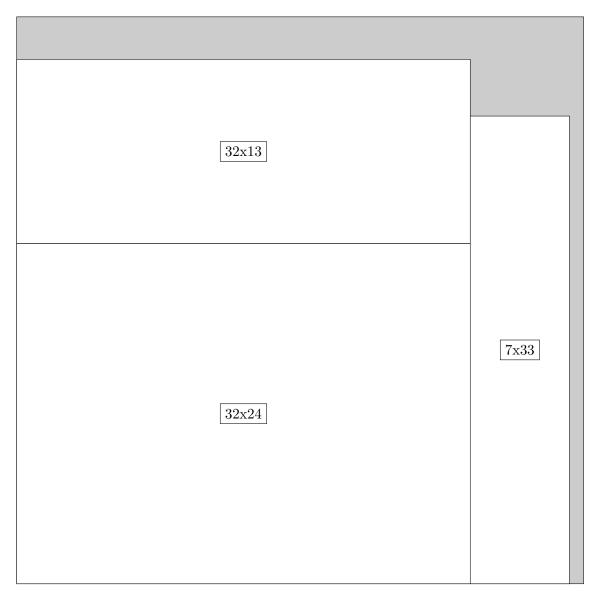


$$\le = 22$$
 ,  $h = 22$  ,  $x = 0$  ,  $y = 0$  ,  $v = 484$ 

$$\le =26$$
 ,  $h$  =18 ,  $x$  =0 ,  $y$  =22 ,  $v$  =468

$$\le =17$$
 , h =21 , x =22 , y =0 , v =357

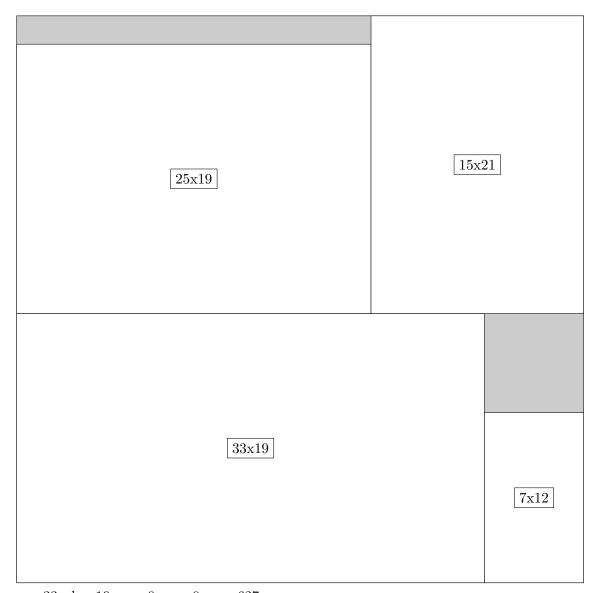
$$\mathbf{w}$$
 =10 , h =19 , x =26 , y =21 , v =190



$$\begin{array}{l} w = & 32 \;,\; h = & 13 \;,\; x = & 0 \;,\; y = & 24 \;,\; v = & 416 \\ w = & 7 \;,\; h = & 33 \;,\; x = & 32 \;,\; y = & 0 \;,\; v = & 231 \\ w = & 32 \;,\; h = & 24 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 768 \end{array}$$

	12x1
20x32	20x31

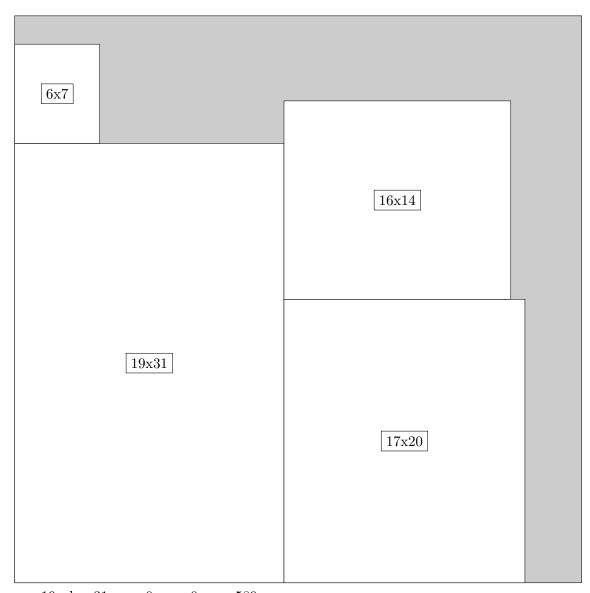
 $\begin{array}{l} w = 20 \ , \ h = 32 \ , \ x = 0 \ , \ y = 0 \ , \ v = 640 \\ w = 20 \ , \ h = 31 \ , \ x = 20 \ , \ y = 0 \ , \ v = 620 \\ w = 12 \ , \ h = 1 \ , \ x = 20 \ , \ y = 31 \ , \ v = 12 \end{array}$ 



 $\begin{array}{l} w = \! 33 \ , \ h = \! 19 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 627 \\ w = \! 25 \ , \ h = \! 19 \ , \ x = \! 0 \ , \ y = \! 19 \ , \ v = \! 475 \end{array}$ 

 $\le =15$  , h =21 , x =25 , y =19 , v =315

 $\mathbf{w}$  =7 , h =12 , x =33 , y =0 , v =84



$$\begin{array}{l} w = 19 \ , \ h = 31 \ , \ x = 0 \ , \ y = 0 \ , \ v = 589 \\ w = 17 \ , \ h = 20 \ , \ x = 19 \ , \ y = 0 \ , \ v = 340 \\ w = 16 \ , \ h = 14 \ , \ x = 19 \ , \ y = 20 \ , \ v = 224 \\ w = 6 \ , \ h = 7 \ , \ x = 0 \ , \ y = 31 \ , \ v = 42 \end{array}$$

25x11		15x11	
16x29		24x18	
	182	x11	

$$w = 16$$
,  $h = 29$ ,  $x = 0$ ,  $y = 0$ ,  $v = 464$ 

$$\le =24$$
 ,  $h$  =18 ,  $x$  =16 ,  $y$  =11 ,  $v$  =432

$$\le =25$$
 ,  $h$  =11 ,  $x$  =0 ,  $y$  =29 ,  $v$  =275

$$\mathbf{w}$$
 =18 , h =11 , x =16 , y =0 , v =198

$$\le =15$$
 , h =11 , x =25 , y =29 , v =165