${\bf ClassName:}~{\bf Class\_03.2bp\text{-}31}$ 

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

TypeNum: <u>76</u>
Num: <u>80</u>
OutS: <u>28800</u>
InS: <u>25445</u>
Rate: <u>0.884</u>
UB: <u>18</u>
LB0: <u>18</u>
LB: <u>18</u>

LBWithCut:  $\underline{\mathbf{18}}$ NodeCut:  $\underline{\mathbf{0}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{18}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt: **true** 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.069 sTotalTime: 0.124 s

17x7	17x5	
342	x33	6x31

$$\begin{array}{c} w = \!\! 34 \; , \; h = \!\! 33 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 1122 \\ w = \!\! 6 \; , \; h = \!\! 31 \; , \; x = \!\! 34 \; , \; y = \!\! 0 \; , \; v = \!\! 186 \\ \end{array}$$

$$\le =17$$
 , h =7 , x =0 , y =33 , v =119

$$w = 17$$
,  $h = 5$ ,  $x = 17$ ,  $y = 33$ ,  $v = 85$ 

27x7	6x5
	6x17
34x33	6x18

 $\begin{array}{l} w = \!\! 34 \; , \; h = \!\! 33 \; , \; x = \!\! 0 \; , \; y = \!\! 0 \; , \; v = \!\! 1122 \\ w = \!\! 27 \; , \; h = \!\! 7 \; , \; x = \!\! 7 \; , \; y = \!\! 33 \; , \; v = \!\! 189 \end{array}$ 

w = 6, h = 18, x = 34, y = 0, v = 108

w = 6, h = 17, x = 34, y = 18, v = 102

w =6, h =5, x =34, y =35, v =30

15x4 12x8 18x4 10x5 30x32 10x25

$$\le =10$$
 ,  $==25$  ,  $==30$  ,  $==250$  ,  $==250$ 

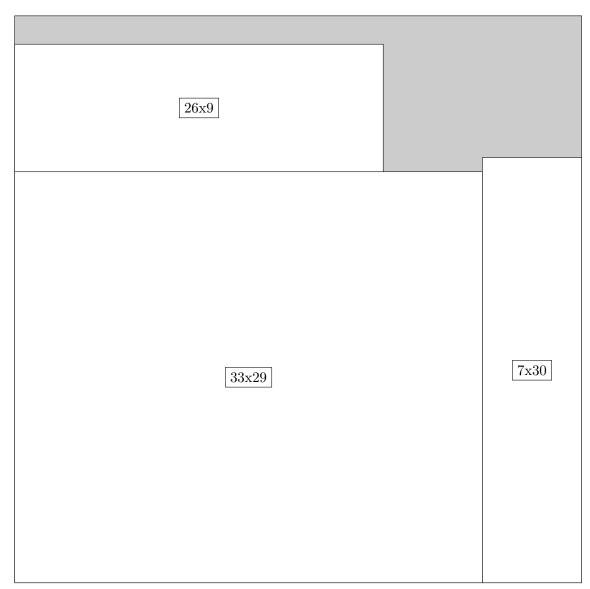
$$\le =30$$
 , h =32 , x =0 , y =0 , v =960

$$\le =12$$
 , h =8 , x =0 , y =32 , v =96

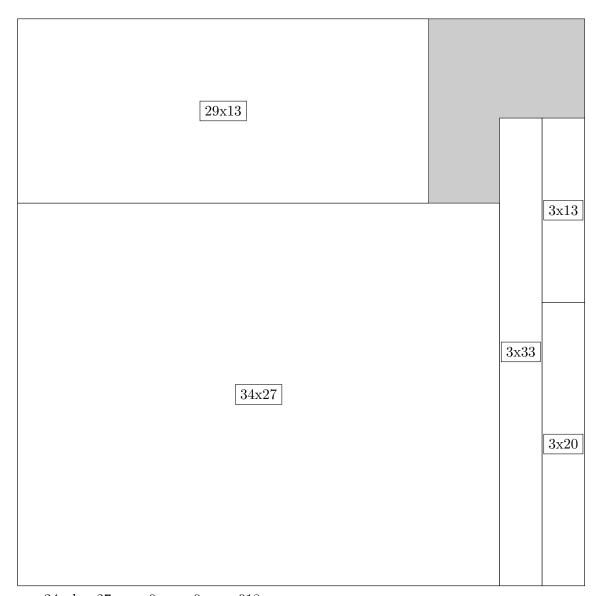
$$\le =18$$
 , h =4 , x =12 , y =32 , v =72

$$\le =15$$
 , h =4 , x =12 , y =36 , v =60

$$\le =10$$
 ,  $h=5$  ,  $x=30$  ,  $y=25$  ,  $v=50$ 



 $\begin{array}{l} w = \! 33 \ , \ h = \! 29 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 957 \\ w = \! 26 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 29 \ , \ v = \! 234 \\ w = \! 7 \ , \ h = \! 30 \ , \ x = \! 33 \ , \ y = \! 0 \ , \ v = \! 210 \end{array}$ 

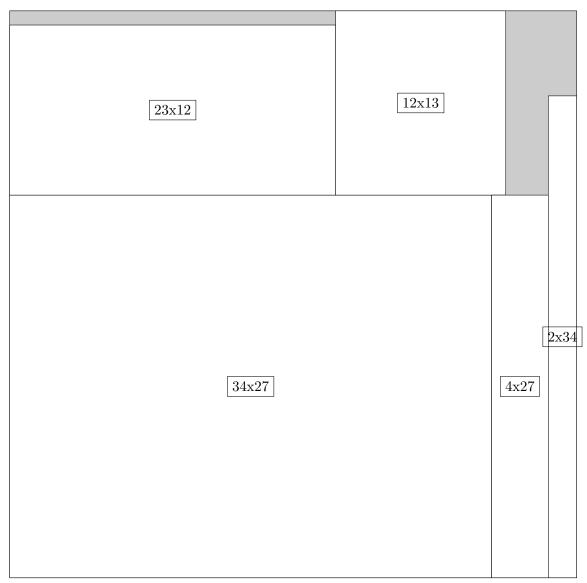


 $\begin{array}{l} w = \! 34 \ , \ h = \! 27 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 918 \\ w = \! 29 \ , \ h = \! 13 \ , \ x = \! 0 \ , \ y = \! 27 \ , \ v = \! 377 \end{array}$ 

w = 3, h = 33, x = 34, y = 0, v = 99

 $\le =3$  , h =20 , x =37 , y =0 , v =60

w = 3, h = 13, x = 37, y = 20, v = 39



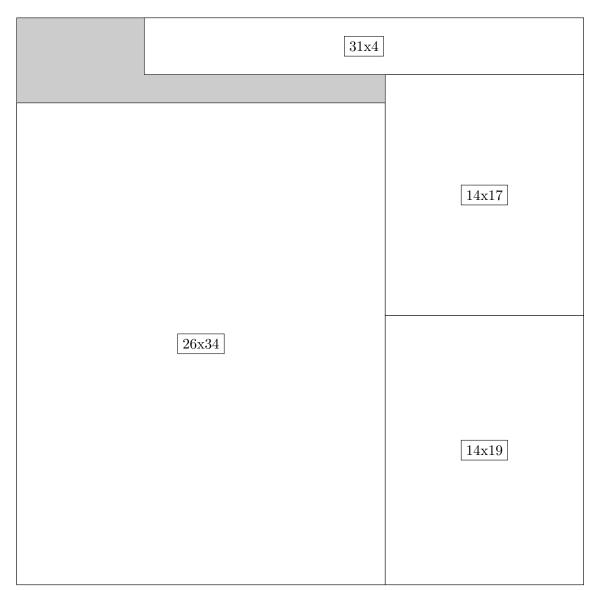
$$w = 34$$
,  $h = 27$ ,  $x = 0$ ,  $y = 0$ ,  $v = 918$ 

$$\le =23$$
 ,  $h$  =12 ,  $x$  =0 ,  $y$  =27 ,  $v$  =276

$$\le =12$$
 , h =13 , x =23 , y =27 , v =156

$$\mathbf{w}$$
 =4 , h =27 , x =34 , y =0 , v =108

$$\mathbf{w}$$
 =2 , h =34 , x =38 , y =0 , v =68

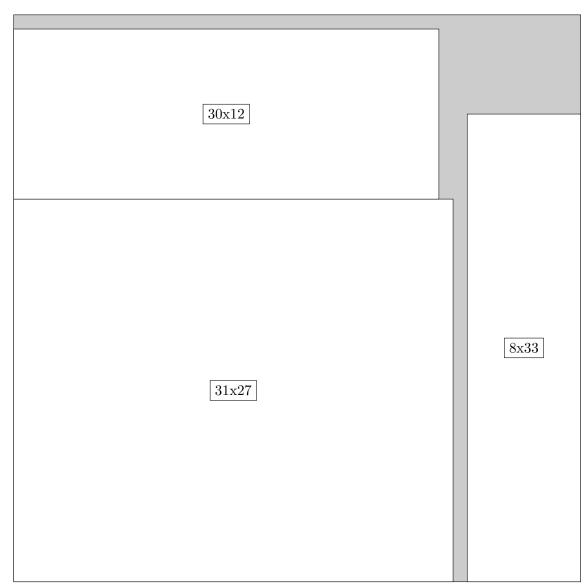


$$\le =26$$
 ,  $h=34$  ,  $x=0$  ,  $y=0$  ,  $v=884$ 

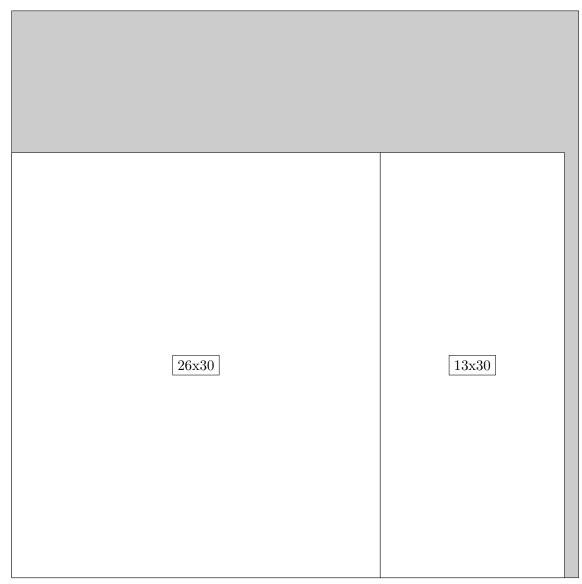
$$\le =14$$
 ,  $h$  =19 ,  $x$  =26 ,  $y$  =0 ,  $v$  =266

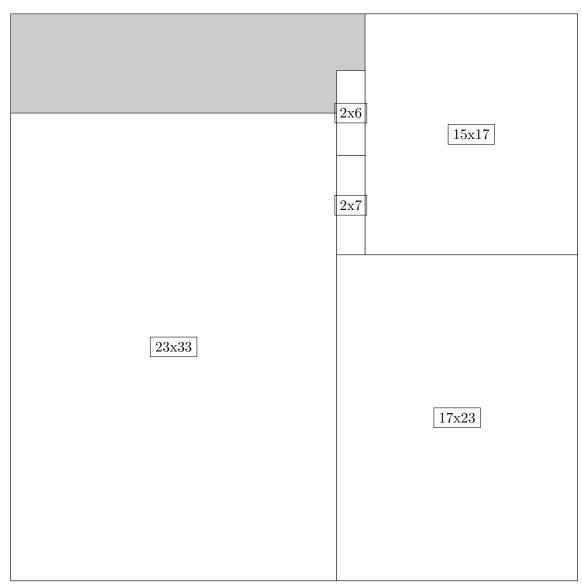
$$\le =14$$
 ,  $h$  =17 ,  $x$  =26 ,  $y$  =19 ,  $v$  =238

$$\le =31$$
 ,  $h=4$  ,  $x=9$  ,  $y=36$  ,  $v=124$ 



$$\begin{array}{l} w = & 31 \ , \ h = & 27 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 837 \\ w = & 30 \ , \ h = & 12 \ , \ x = & 0 \ , \ y = & 27 \ , \ v = & 360 \\ w = & 8 \ , \ h = & 33 \ , \ x = & 32 \ , \ y = & 0 \ , \ v = & 264 \end{array}$$





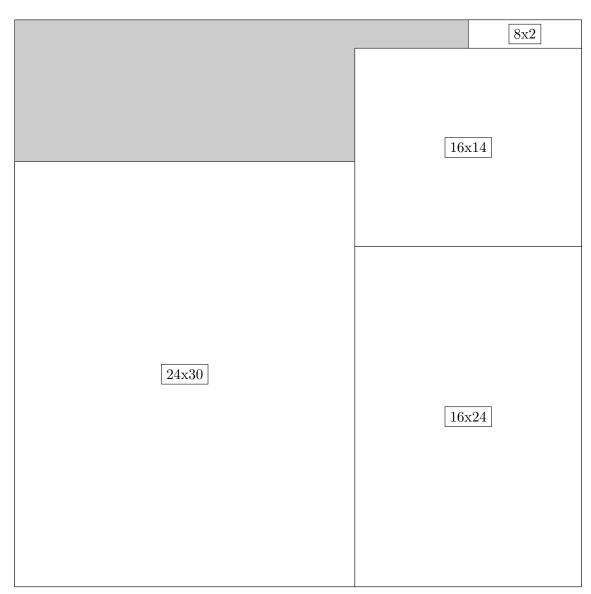
$$\mathbf{w}$$
 =23 , h =33 , x =0 , y =0 , v =759

$$\le =17$$
 ,  $= 23$  ,  $= 23$  ,  $= 23$  ,  $= 23$  ,  $= 23$  ,  $= 23$  ,  $= 23$ 

$$\le =15$$
 ,  $h$  =17 ,  $x$  =25 ,  $y$  =23 ,  $v$  =255

$$\mathbf{w}$$
 =2 , h =7 , x =23 , y =23 , v =14

$$\le =2$$
 ,  $h$  =6 ,  $x$  =23 ,  $y$  =30 ,  $v$  =12

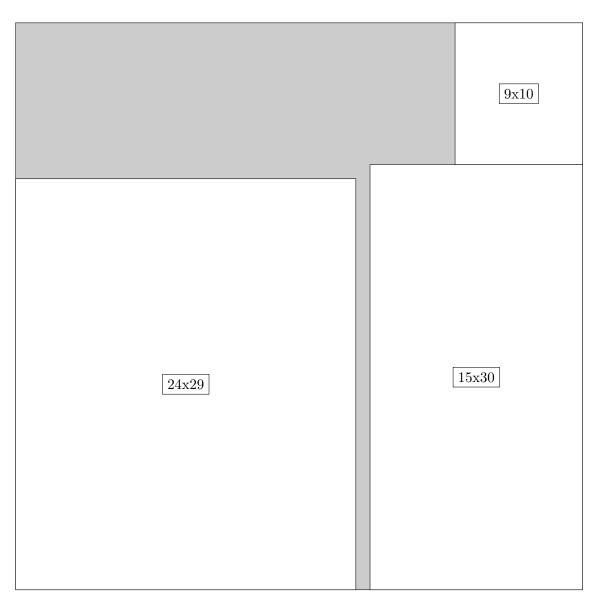


$$w = 24$$
,  $h = 30$ ,  $x = 0$ ,  $y = 0$ ,  $v = 720$ 

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

$$\le =16$$
 , h =14 , x =24 , y =24 , v =224

$$\mathbf{w}$$
 =8 , h =2 , x =32 , y =38 , v =16



 $\begin{array}{l} w = 24 \; , \; h = 29 \; , \; x = 0 \; , \; y = 0 \; , \; v = 696 \\ w = 15 \; , \; h = 30 \; , \; x = 25 \; , \; y = 0 \; , \; v = 450 \\ w = 9 \; , \; h = 10 \; , \; x = 31 \; , \; y = 30 \; , \; v = 90 \end{array}$ 

20x12	20x12
23x27	12x28 5x20

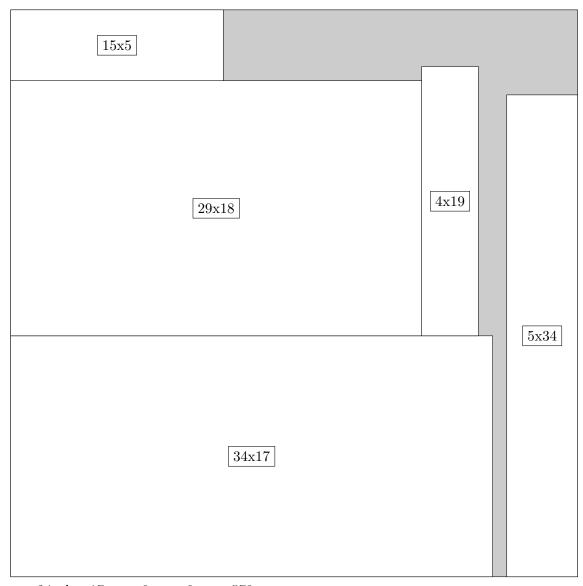
$$\mathbf{w}$$
 =23 ,  $\mathbf{h}$  =27 ,  $\mathbf{x}$  =0 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =621

$$\le =12$$
 , h =28 , x =23 , y =0 , v =336

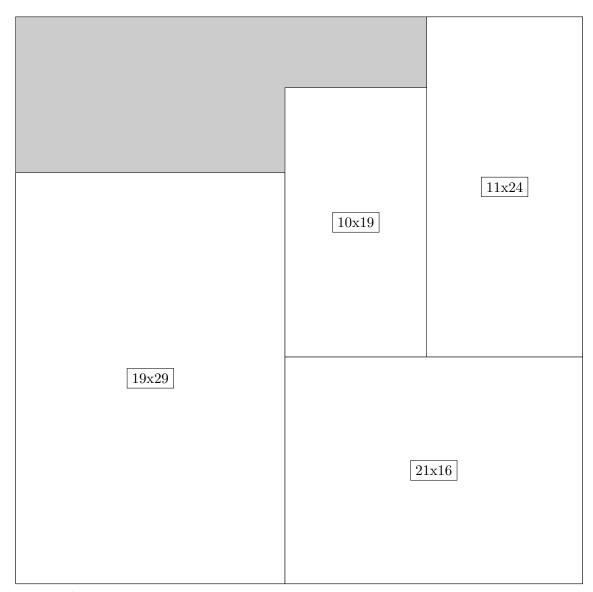
$$\le =20$$
 ,  $h$  =12 ,  $x$  =0 ,  $y$  =28 ,  $v$  =240

$$\le =20$$
 , h =12 , x =20 , y =28 , v =240

$$\mathbf{w}$$
 =5 , h =20 , x =35 , y =0 , v =100



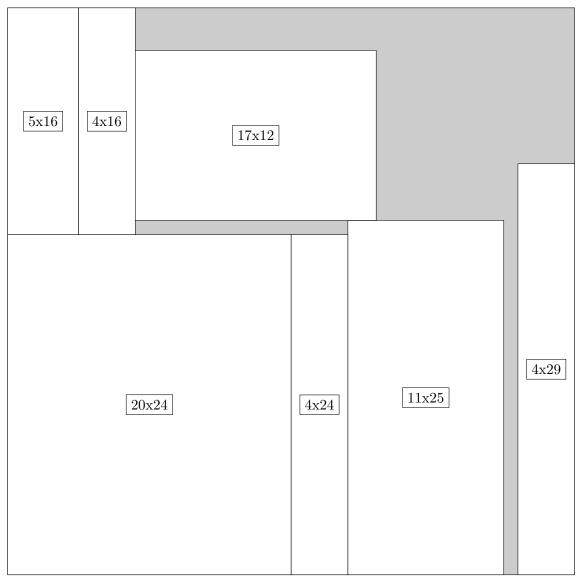
$$\begin{array}{l} w = \!\! 34 \;,\; h = \!\! 17 \;,\; x = \!\! 0 \;,\; y = \!\! 0 \;,\; v = \!\! 578 \\ w = \!\! 29 \;,\; h = \!\! 18 \;,\; x = \!\! 0 \;,\; y = \!\! 17 \;,\; v = \!\! 522 \\ w = \!\! 15 \;,\; h = \!\! 5 \;,\; x = \!\! 0 \;,\; y = \!\! 35 \;,\; v = \!\! 75 \\ w = \!\! 5 \;,\; h = \!\! 34 \;,\; x = \!\! 35 \;,\; y = \!\! 0 \;,\; v = \!\! 170 \\ w = \!\! 4 \;,\; h = \!\! 19 \;,\; x = \!\! 29 \;,\; y = \!\! 17 \;,\; v = \!\! 76 \end{array}$$



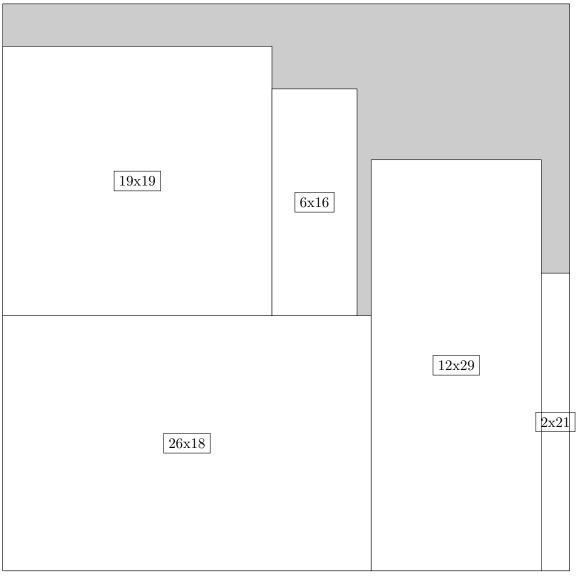
$$\begin{array}{l} w = \! 19 \ , \ h = \! 29 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 551 \\ w = \! 11 \ , \ h = \! 24 \ , \ x = \! 29 \ , \ y = \! 16 \ , \ v = \! 264 \end{array}$$

$$w$$
 =10 ,  $h$  =19 ,  $x$  =19 ,  $y$  =16 ,  $v$  =190

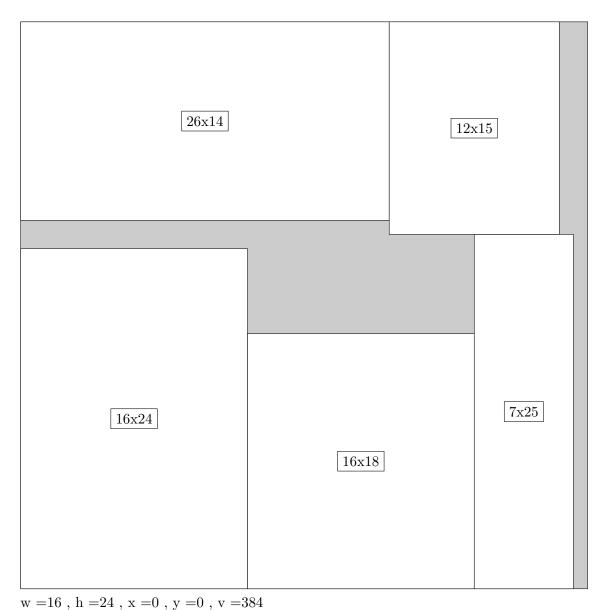
$$\le =21$$
 ,  $h$  =16 ,  $x$  =19 ,  $y$  =0 ,  $v$  =336



$$\begin{array}{l} w=20\;,\; h=24\;,\; x=0\;,\; y=0\;,\; v=480\\ w=11\;,\; h=25\;,\; x=24\;,\; y=0\;,\; v=275\\ w=17\;,\; h=12\;,\; x=9\;,\; y=25\;,\; v=204\\ w=4\;,\; h=24\;,\; x=20\;,\; y=0\;,\; v=96\\ w=4\;,\; h=29\;,\; x=36\;,\; y=0\;,\; v=116\\ w=5\;,\; h=16\;,\; x=0\;,\; y=24\;,\; v=80\\ w=4\;,\; h=16\;,\; x=5\;,\; y=24\;,\; v=64\\ \end{array}$$



$$\begin{array}{l} w=26 \ , \ h=18 \ , \ x=0 \ , \ y=0 \ , \ v=468 \\ w=19 \ , \ h=19 \ , \ x=0 \ , \ y=18 \ , \ v=361 \\ w=12 \ , \ h=29 \ , \ x=26 \ , \ y=0 \ , \ v=348 \\ w=6 \ , \ h=16 \ , \ x=19 \ , \ y=18 \ , \ v=96 \\ w=2 \ , \ h=21 \ , \ x=38 \ , \ y=0 \ , \ v=42 \end{array}$$



$$w = 12$$
,  $h = 15$ ,  $x = 26$ ,  $y = 25$ ,  $v = 180$