${\bf ClassName:}\ {\bf Class\_03.2bp\text{-}39}$ 

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

TypeNum: <u>79</u> Num: <u>80</u> OutS: <u>28800</u> InS: <u>25943</u> Rate: <u>0.901</u> UB: <u>18</u> LB0: <u>18</u> LB: <u>18</u>

LBWithCut:  $\underline{\mathbf{18}}$ NodeCut:  $\underline{\mathbf{0}}$ 

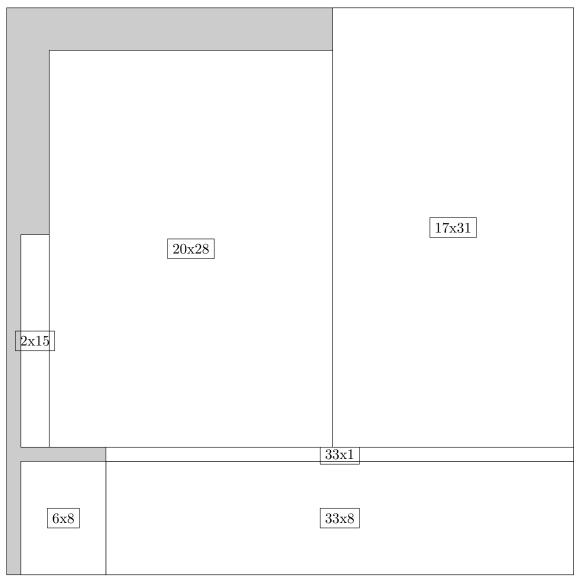
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

GenNodeCnt:  $\underline{\mathbf{1}}$ 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:  $\underline{\mathbf{true}}$ 

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.343 s



$$\mathbf{w}$$
 =33 , h =8 , x =7 , y =0 , v =264

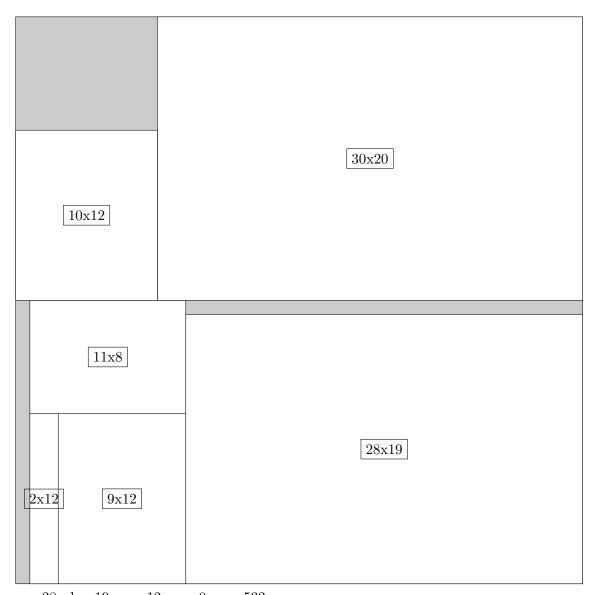
$$\le =33$$
 , h =1 , x =7 , y =8 , v =33

$$\mathbf{w}$$
 =6 , h =8 , x =1 , y =0 , v =48

$$\le =17$$
 , h =31 , x =23 , y =9 , v =527

$$\le =20$$
 , h =28 , x =3 , y =9 , v =  
560

$$\mathbf{w}$$
 =2 , h =15 , x =1 , y =9 , v =30



$$\begin{array}{l} w = 28 \; , \; h = 19 \; , \; x = 12 \; , \; y = 0 \; , \; v = 532 \\ w = 9 \; , \; h = 12 \; , \; x = 3 \; , \; y = 0 \; , \; v = 108 \\ w = 2 \; , \; h = 12 \; , \; x = 1 \; , \; y = 0 \; , \; v = 24 \\ w = 11 \; , \; h = 8 \; , \; x = 1 \; , \; y = 12 \; , \; v = 88 \\ w = 30 \; , \; h = 20 \; , \; x = 10 \; , \; y = 20 \; , \; v = 600 \\ w = 10 \; , \; h = 12 \; , \; x = 0 \; , \; y = 20 \; , \; v = 120 \end{array}$$

22x4 27x2	[10x6]
30x4	
$\boxed{30\mathrm{x}29}$	$\fbox{10x34}$

$$w = 10$$
,  $h = 34$ ,  $x = 30$ ,  $y = 0$ ,  $v = 340$ 

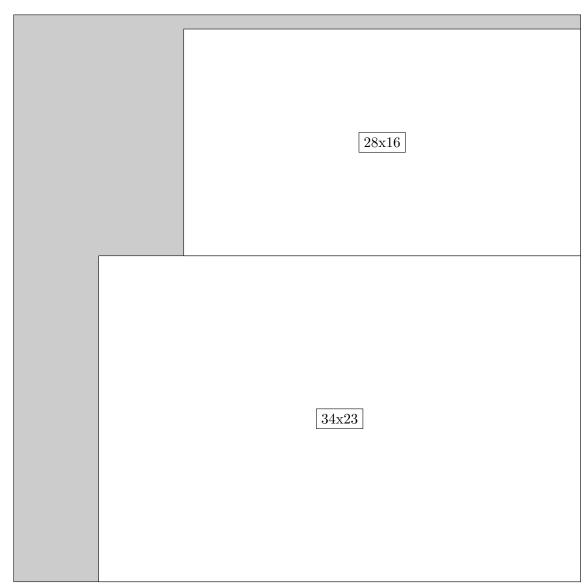
$$\mathbf{w}$$
 =10 , h =6 , x =30 , y =34 , v =60

$$\le =30$$
 , h =29 , x =0 , y =0 , v =870

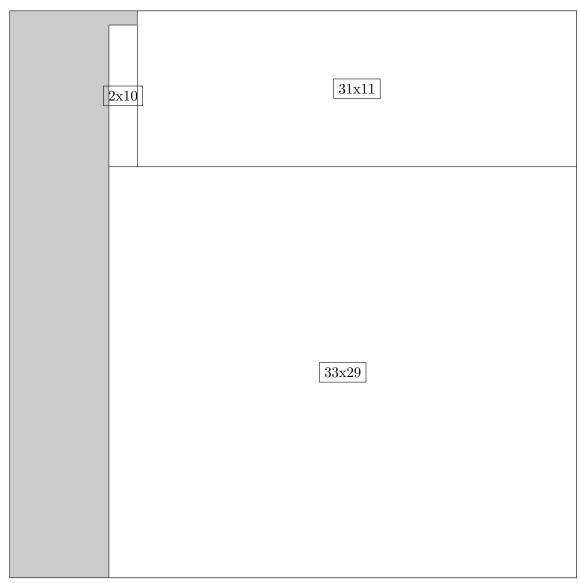
$$\le =30$$
 , h =4 , x =0 , y =29 , v =120

$$\le =27$$
 , h =2 , x =3 , y =33 , v =54

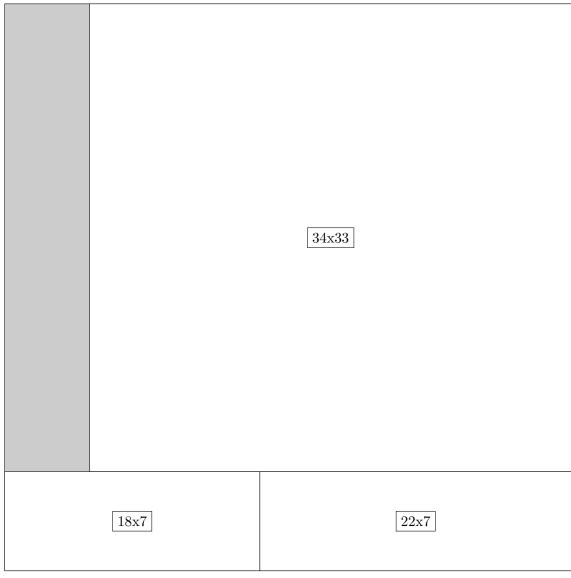
$$w=\!22$$
 ,  $h=\!4$  ,  $x=\!8$  ,  $y=\!35$  ,  $v=\!88$ 



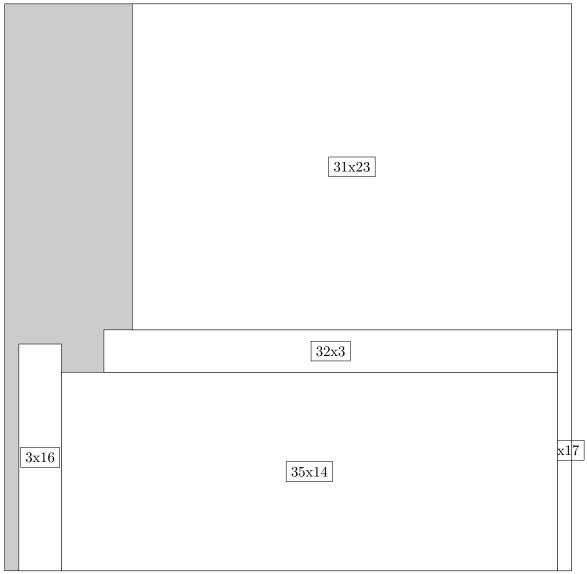
$$\begin{array}{l} w = \! 34 \; , \; h = \! 23 \; , \; x = \! 6 \; , \; y = \! 0 \; , \; v = \! 782 \\ w = \! 28 \; , \; h = \! 16 \; , \; x = \! 12 \; , \; y = \! 23 \; , \; v = \! 448 \end{array}$$



 $\begin{array}{l} w = \! 33 \ , \ h = \! 29 \ , \ x = \! 7 \ , \ y = \! 0 \ , \ v = \! 957 \\ w = \! 31 \ , \ h = \! 11 \ , \ x = \! 9 \ , \ y = \! 29 \ , \ v = \! 341 \\ w = \! 2 \ , \ h = \! 10 \ , \ x = \! 7 \ , \ y = \! 29 \ , \ v = \! 20 \end{array}$ 



$$\begin{array}{l} w = & 22 \; , \; h = & 7 \; , \; x = & 18 \; , \; y = & 0 \; , \; v = & 154 \\ w = & 18 \; , \; h = & 7 \; , \; x = & 0 \; , \; y = & 0 \; , \; v = & 126 \\ w = & 34 \; , \; h = & 33 \; , \; x = & 6 \; , \; y = & 7 \; , \; v = & 1122 \end{array}$$



$$\begin{array}{l} w=1\ ,\ h=17\ ,\ x=39\ ,\ y=0\ ,\ v=17\\ w=35\ ,\ h=14\ ,\ x=4\ ,\ y=0\ ,\ v=490\\ w=32\ ,\ h=3\ ,\ x=7\ ,\ y=14\ ,\ v=96\\ w=3\ ,\ h=16\ ,\ x=1\ ,\ y=0\ ,\ v=48\\ w=31\ ,\ h=23\ ,\ x=9\ ,\ y=17\ ,\ v=713 \end{array}$$

23x	1x5 5	17x10
3x30 9x30		28x30

$$w = 28$$
,  $h = 30$ ,  $x = 12$ ,  $y = 0$ ,  $v = 840$ 

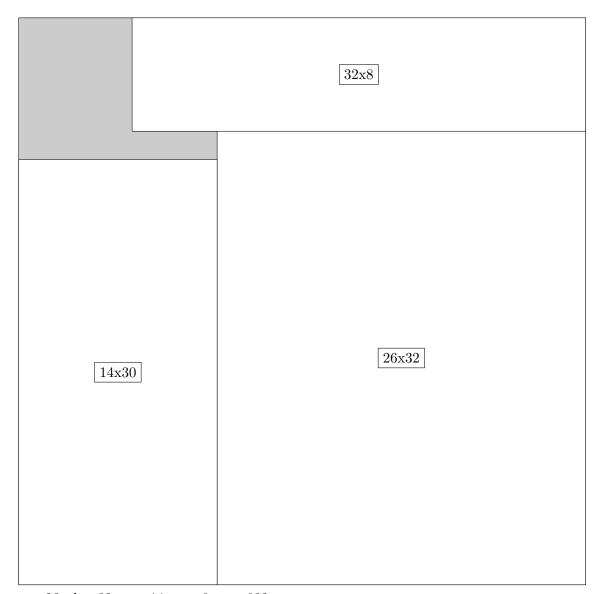
$$w = 9$$
,  $h = 30$ ,  $x = 3$ ,  $y = 0$ ,  $v = 270$ 

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

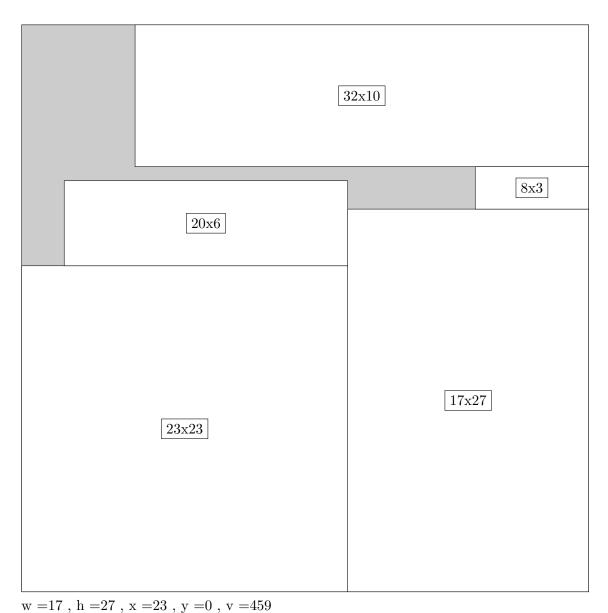
$$\le =17$$
 , h =10 , x =23 , y =30 , v =170

$$\le =23$$
 , h =5 , x =0 , y =30 , v =115

$$\le =21$$
 ,  $h$  =5 ,  $x$  =2 ,  $y$  =35 ,  $v$  =105



$$\begin{array}{l} w = 26 \ , \ h = 32 \ , \ x = 14 \ , \ y = 0 \ , \ v = 832 \\ w = 14 \ , \ h = 30 \ , \ x = 0 \ , \ y = 0 \ , \ v = 420 \\ w = 32 \ , \ h = 8 \ , \ x = 8 \ , \ y = 32 \ , \ v = 256 \end{array}$$



$$w = 32$$
,  $h = 10$ ,  $x = 8$ ,  $y = 30$ ,  $v = 320$ 

	20x1
15x8	
	21x18
10.00	
19x32	
	21x21

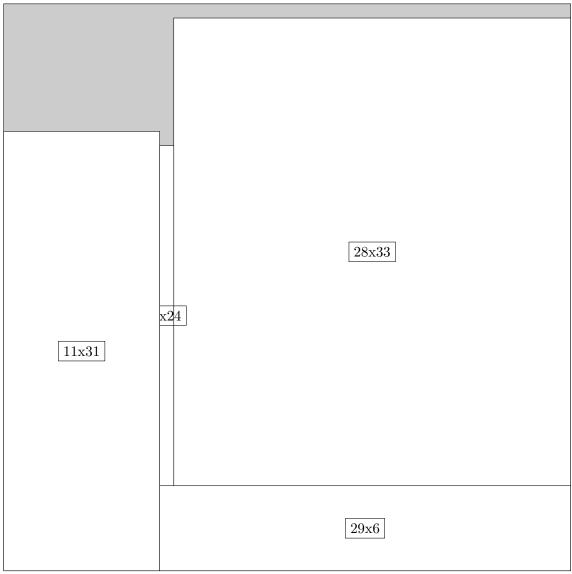
$$\mathbf{w}$$
 =21 , h =21 , x =19 , y =0 , v =441

$$w=\!21$$
 ,  $h=\!18$  ,  $x=\!19$  ,  $y=\!21$  ,  $v=\!378$ 

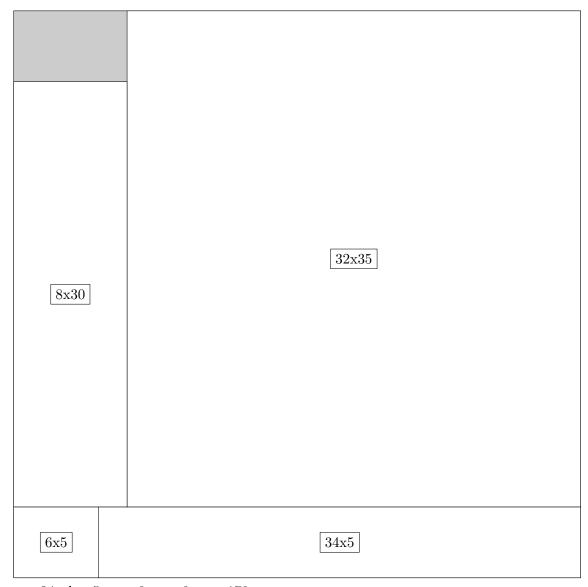
$$\le =20$$
 , h =1 , x =20 , y =39 , v =20

$$\le =19$$
 , h =32 , x =0 , y =0 , v =608

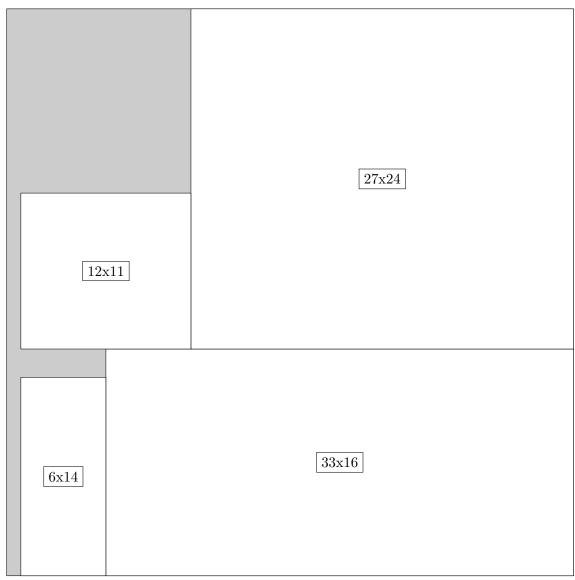
$$w$$
 =15 ,  $h$  =8 ,  $x$  =4 ,  $y$  =32 ,  $v$  =120



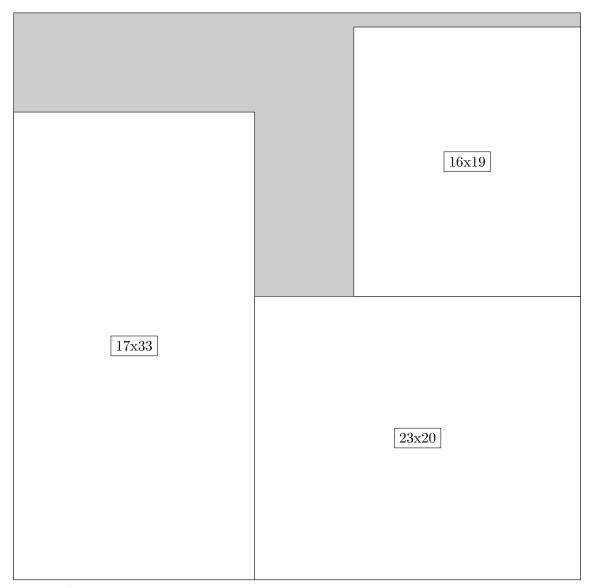
 $\begin{array}{l} w=29 \ , \ h=6 \ , \ x=11 \ , \ y=0 \ , \ v=174 \\ w=28 \ , \ h=33 \ , \ x=12 \ , \ y=6 \ , \ v=924 \\ w=1 \ , \ h=24 \ , \ x=11 \ , \ y=6 \ , \ v=24 \\ w=11 \ , \ h=31 \ , \ x=0 \ , \ y=0 \ , \ v=341 \end{array}$ 



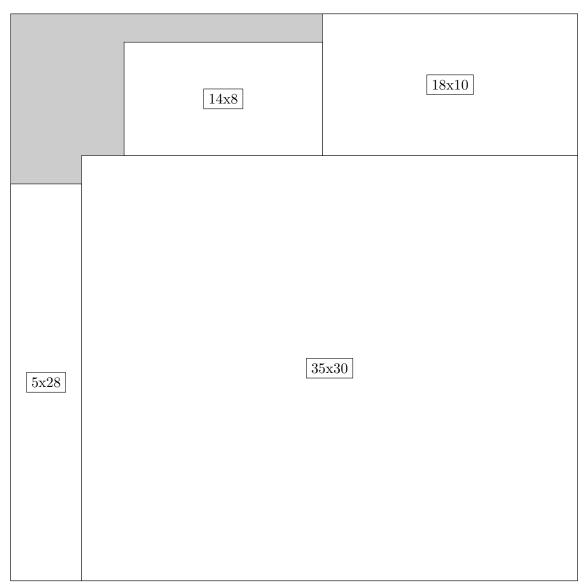
 $\begin{array}{l} w = \!\! 34 \ , \ h = \!\! 5 \ , \ x = \!\! 6 \ , \ y = \!\! 0 \ , \ v = \!\! 170 \\ w = \!\! 6 \ , \ h = \!\! 5 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 30 \\ w = \!\! 32 \ , \ h = \!\! 35 \ , \ x = \!\! 8 \ , \ y = \!\! 5 \ , \ v = \!\! 1120 \\ w = \!\! 8 \ , \ h = \!\! 30 \ , \ x = \!\! 0 \ , \ y = \!\! 5 \ , \ v = \!\! 240 \end{array}$ 



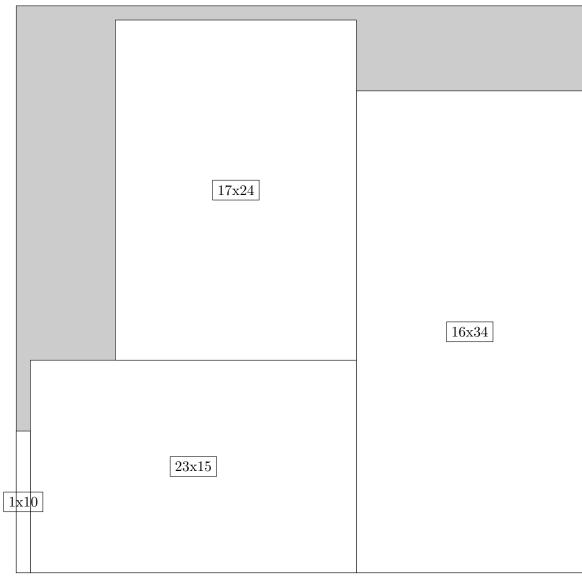
$$\begin{array}{l} w = \!\! 33 \ , \ h = \!\! 16 \ , \ x = \!\! 7 \ , \ y = \!\! 0 \ , \ v = \!\! 528 \\ w = \!\! 6 \ , \ h = \!\! 14 \ , \ x = \!\! 1 \ , \ y = \!\! 0 \ , \ v = \!\! 84 \\ w = \!\! 27 \ , \ h = \!\! 24 \ , \ x = \!\! 13 \ , \ y = \!\! 16 \ , \ v = \!\! 648 \\ w = \!\! 12 \ , \ h = \!\! 11 \ , \ x = \!\! 1 \ , \ y = \!\! 16 \ , \ v = \!\! 132 \end{array}$$



$$\begin{array}{l} w = 23 \ , \ h = 20 \ , \ x = 17 \ , \ y = 0 \ , \ v = 460 \\ w = 16 \ , \ h = 19 \ , \ x = 24 \ , \ y = 20 \ , \ v = 304 \\ w = 17 \ , \ h = 33 \ , \ x = 0 \ , \ y = 0 \ , \ v = 561 \end{array}$$



 $\begin{array}{l} w = & 35 \ , \ h = & 30 \ , \ x = & 5 \ , \ y = & 0 \ , \ v = & 1050 \\ w = & 5 \ , \ h = & 28 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 140 \\ w = & 18 \ , \ h = & 10 \ , \ x = & 22 \ , \ y = & 30 \ , \ v = & 112 \end{array}$ 



 $\begin{array}{l} w = 16 \ , \, h = 34 \ , \, x = 24 \ , \, y = 0 \ , \, v = 544 \\ w = 23 \ , \, h = 15 \ , \, x = 1 \ , \, y = 0 \ , \, v = 345 \\ w = 1 \ , \, h = 10 \ , \, x = 0 \ , \, y = 0 \ , \, v = 10 \\ w = 17 \ , \, h = 24 \ , \, x = 7 \ , \, y = 15 \ , \, v = 408 \end{array}$ 



 $\mathbf{w}$  =2 , h =10 , x =0 , y =25 , v =20