$ClassName: \ Class\_01.2bp-44$ 

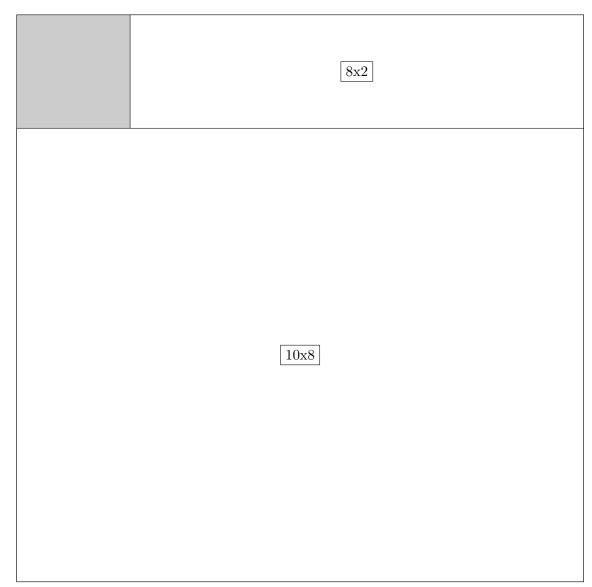
BinSize:  $\underline{10} \times \underline{10}$ ReduceSize:  $\underline{10} \times \underline{10}$ 

TypeNum: <u>64</u>
Num: <u>100</u>
OutS: <u>3200</u>
InS: <u>3015</u>
Rate: <u>0.942</u>
UB: <u>32</u>
LB0: <u>32</u>
LB: <u>32</u>

LBWithCut:  $\underline{32}$ NodeCut:  $\underline{0}$ PrimalNode:  $\underline{0}$ ColumnCount:  $\underline{32}$ TotalCutCount:  $\underline{0}$ RootCutCount:  $\underline{0}$ LPSolverCnt:  $\underline{1}$ PricingSolverCnt:  $\underline{0}$ BranchAndBoundNum:  $\underline{1}$ 

isOpt: **true** 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 0.125 s



5x2	5x2
	x8

 $\begin{array}{l} w = & 10 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 80 \\ w = & 5 \ , \ h = & 2 \ , \ x = & 5 \ , \ y = & 8 \ , \ v = & 10 \\ w = & 5 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 8 \ , \ v = & 10 \end{array}$ 



3x2	3x2	3x2
	9x8	1x8

$$w = 9$$
,  $h = 8$ ,  $x = 0$ ,  $y = 0$ ,  $v = 72$ 

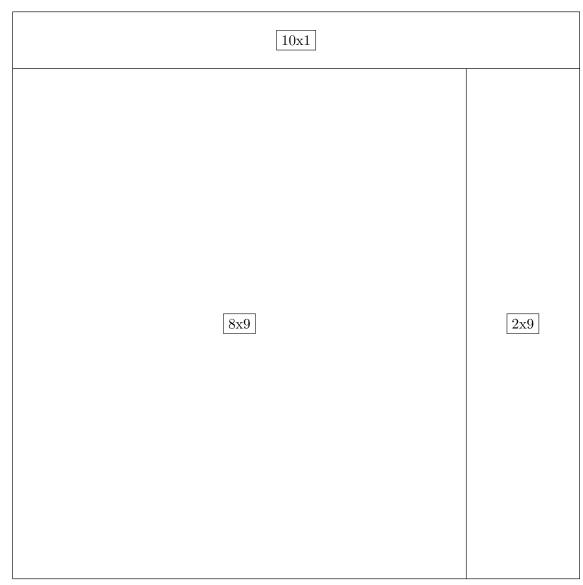
$$w = 3$$
,  $h = 2$ ,  $x = 7$ ,  $y = 8$ ,  $v = 6$ 

$$\mathbf{w}=3$$
 ,  $\mathbf{h}=2$  ,  $\mathbf{x}=4$  ,  $\mathbf{y}=8$  ,  $\mathbf{v}=6$ 

$$w = 3$$
,  $h = 2$ ,  $x = 1$ ,  $y = 8$ ,  $v = 6$ 

 $<sup>\</sup>mathbf{w}$  =1 , h =8 , x =9 , y =0 , v =8

7x10	3x10



 $\begin{array}{l} w = 8 \; , \; h = 9 \; , \; x = 0 \; , \; y = 0 \; , \; v = 72 \\ w = 2 \; , \; h = 9 \; , \; x = 8 \; , \; y = 0 \; , \; v = 18 \\ w = 10 \; , \; h = 1 \; , \; x = 0 \; , \; y = 9 \; , \; v = 10 \end{array}$ 

9x1	
	2x1
8x9	2x8

$$\mathbf{w}$$
 =8 , h =9 , x =0 , y =0 , v =72

$$\le =2$$
 , h =8 , x =8 , y =0 , v =  
16

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

$$\mathbf{w}$$
 =2 , h =1 , x =8 , y =8 , v =2



9x1	
9x1	
9x8	1x9

$$\mathbf{w}$$
 =9 , h =8 , x =0 , y =0 , v =72

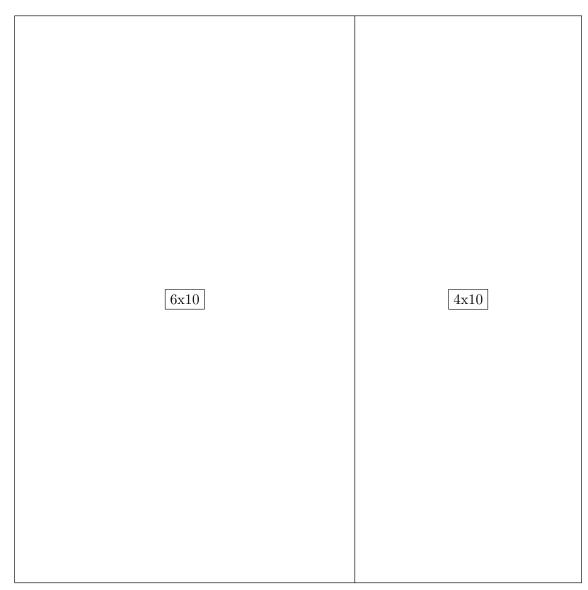
$$\mathbf{w}$$
 =9 , h =1 , x =0 , y =8 , v =9

$$w = 9$$
,  $h = 1$ ,  $x = 1$ ,  $y = 9$ ,  $v = 9$ 

$$\mathbf{w} = \! 1$$
 ,  $\mathbf{h} = \! 9$  ,  $\mathbf{x} = \! 9$  ,  $\mathbf{y} = \! 0$  ,  $\mathbf{v} = \! 9$ 

7x1	
7x9	3x10

 $\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 3 \ , \ h = 10 \ , \ x = 7 \ , \ y = 0 \ , \ v = 30 \\ w = 7 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 7 \end{array}$ 



w =6, h =10, x =0, y =0, v =60 w =4, h =10, x =6, y =0, v =40

1x1		
1x2	[7x3]	2x4
	8x7	2x6

$$w = 8$$
,  $h = 7$ ,  $x = 0$ ,  $y = 0$ ,  $v = 56$ 

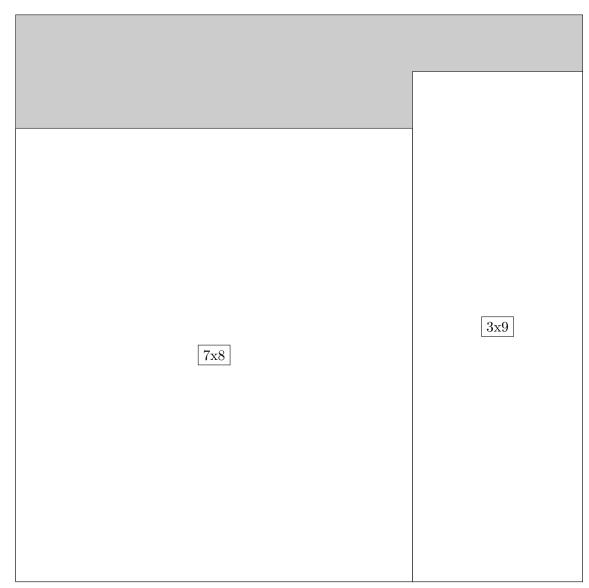
$$\mathbf{w}$$
 =7 , h =3 , x =1 , y =7 , v =21

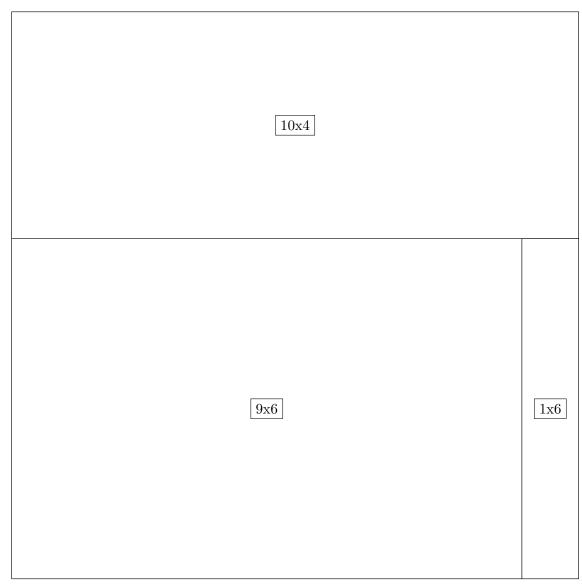
$$w = 2$$
,  $h = 6$ ,  $x = 8$ ,  $y = 0$ ,  $v = 12$ 

$$\mathbf{w}$$
 =2 , h =4 , x =8 , y =6 , v =8

$$w = 1$$
,  $h = 2$ ,  $x = 0$ ,  $y = 7$ ,  $v = 2$ 

$$\mathbf{w}$$
 =1 , h =1 , x =0 , y =9 , v =1





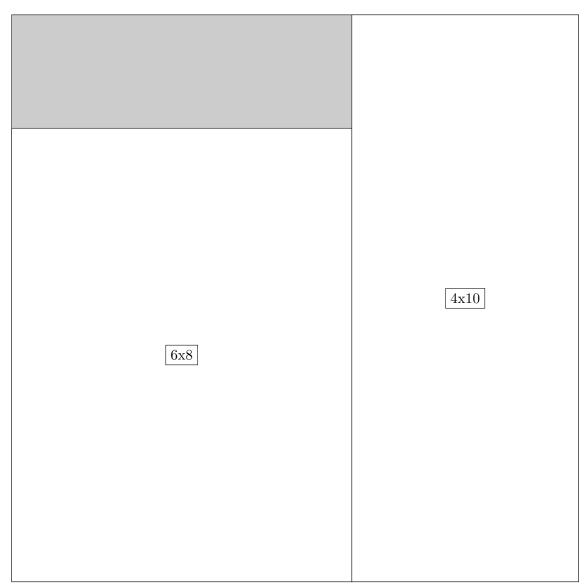
$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 10 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 40 \\ w = 1 \ , \ h = 6 \ , \ x = 9 \ , \ y = 0 \ , \ v = 6 \end{array}$$

4x10 6x9	5x1	
	6x9	4x10

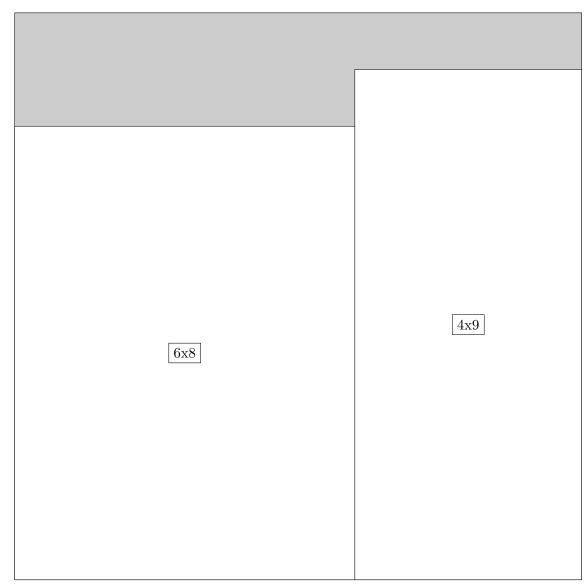
 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 4 \ , \ h = 10 \ , \ x = 6 \ , \ y = 0 \ , \ v = 40 \\ w = 5 \ , \ h = 1 \ , \ x = 1 \ , \ y = 9 \ , \ v = 5 \end{array}$ 

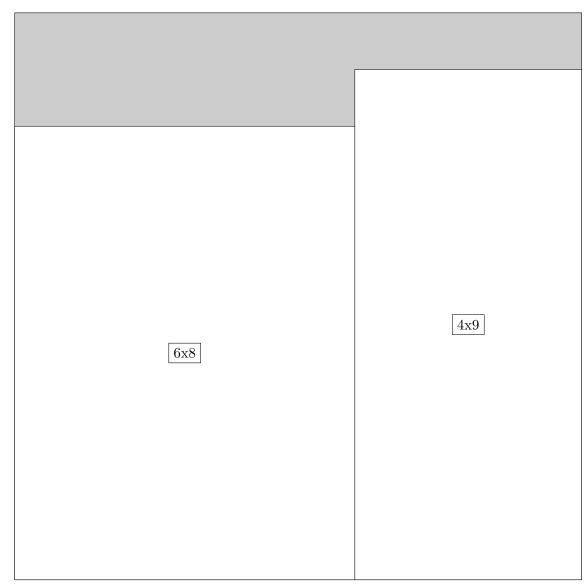
10x3	
7x7	3x7

$$\begin{array}{l} w = 7 \;,\; h = 7 \;,\; x = 0 \;,\; y = 0 \;,\; v = 49 \\ w = 10 \;,\; h = 3 \;,\; x = 0 \;,\; y = 7 \;,\; v = 30 \\ w = 3 \;,\; h = 7 \;,\; x = 7 \;,\; y = 0 \;,\; v = 21 \end{array}$$



w =6, h =8, x =0, y =0, v =48 w =4, h =10, x =6, y =0, v =40





[7x4]	2x6	
7x6	3x4	

$$w = 7$$
,  $h = 6$ ,  $x = 0$ ,  $y = 0$ ,  $v = 42$ 

$$\mathbf{w}$$
 =7 , h =4 , x =0 , y =6 , v =28

$$w = 3$$
 ,  $h = 4$  ,  $x = 7$  ,  $y = 0$  ,  $v = 12$ 

$$\mathbf{w}$$
 =2 , h =6 , x =7 , y =4 , v =12

[7x4]	
7x6	3x3
	3x3

$$w = 7$$
,  $h = 6$ ,  $x = 0$ ,  $y = 0$ ,  $v = 42$ 

$$\mathbf{w}$$
 =7 , h =4 , x =0 , y =6 , v =28

$$\le 3$$
 , h =  
3 , x =  
7 , y =  
0 , v =  
9

6x3			
6x7	1x7	1x7	2x5
		42	x3

$$w = 6$$
,  $h = 7$ ,  $x = 0$ ,  $y = 0$ ,  $v = 42$ 

$$\mathbf{w}$$
 =6 , h =3 , x =0 , y =7 , v =  
18

$$\mathbf{w}$$
 =4 , h =3 , x =6 , y =0 , v =12

$$\mathbf{w}$$
 =2 , h =5 , x =8 , y =3 , v =  
10

$$\mathbf{w}=\!\!1$$
 ,  $\mathbf{h}=\!\!7$  ,  $\mathbf{x}=\!\!6$  ,  $\mathbf{y}=\!\!3$  ,  $\mathbf{v}=\!\!7$ 

$$\mathbf{w}$$
 =1 , h =7 , x =7 , y =3 , v =7

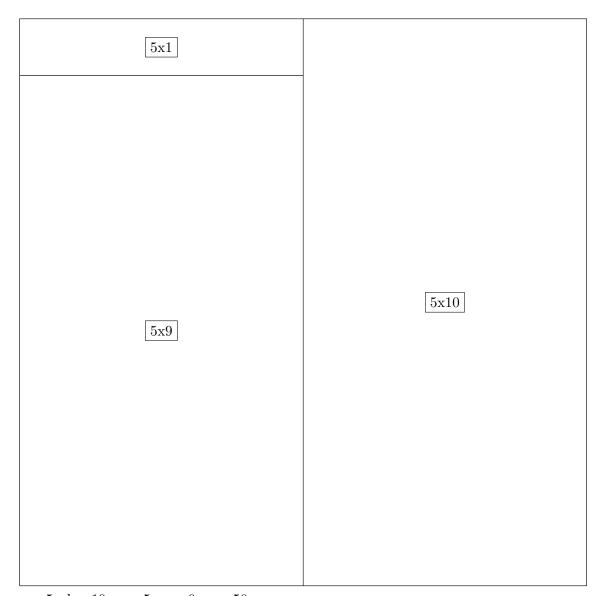
	[10x4]	
6x6		4x6

 $\begin{array}{l} w = \! 10 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 6 \ , \ v = \! 40 \\ w = \! 6 \ , \ h = \! 6 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 36 \\ w = \! 4 \ , \ h = \! 6 \ , \ x = \! 6 \ , \ y = \! 0 \ , \ v = \! 24 \end{array}$ 

	[10x4]	
6x6		4x6

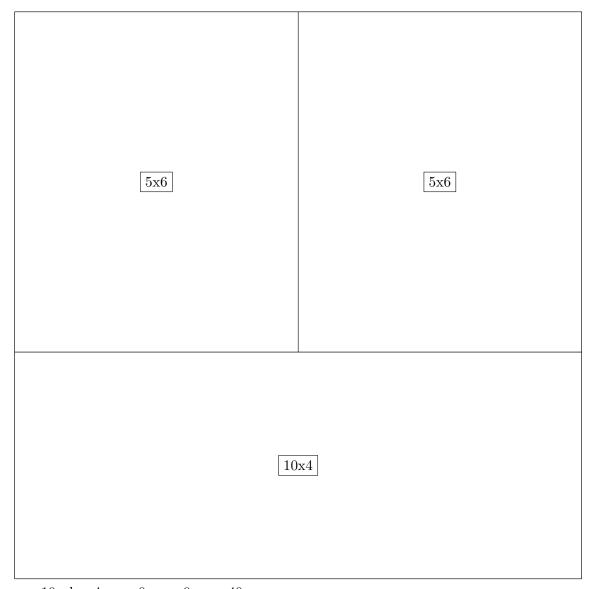
 $\begin{array}{l} w = \! 10 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 6 \ , \ v = \! 40 \\ w = \! 6 \ , \ h = \! 6 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 36 \\ w = \! 4 \ , \ h = \! 6 \ , \ x = \! 6 \ , \ y = \! 0 \ , \ v = \! 24 \end{array}$ 

$5\mathrm{x}10$	$5\mathrm{x}10$



 $\begin{array}{l} w = \! 5 \ , \ h = \! 10 \ , \ x = \! 5 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 5 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 45 \end{array}$ 

 $\mathbf{w}$  =5 , h =1 , x =0 , y =9 , v =5



 $\begin{array}{l} w = & 10 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 40 \\ w = & 5 \ , \ h = & 6 \ , \ x = & 5 \ , \ y = & 4 \ , \ v = & 30 \\ w = & 5 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 4 \ , \ v = & 30 \end{array}$ 

9x4	
8x1	2x3
8x5	2x3

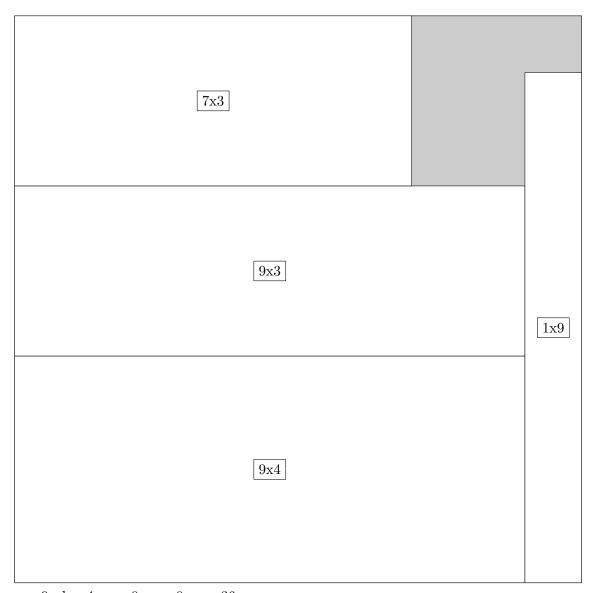
$$\mathbf{w}$$
 =8 , h =5 , x =0 , y =0 , v =40

$$\mathbf{w}$$
 =9 , h =4 , x =1 , y =6 , v =36

$$\mathbf{w}$$
 =8 , h =1 , x =0 , y =5 , v =8

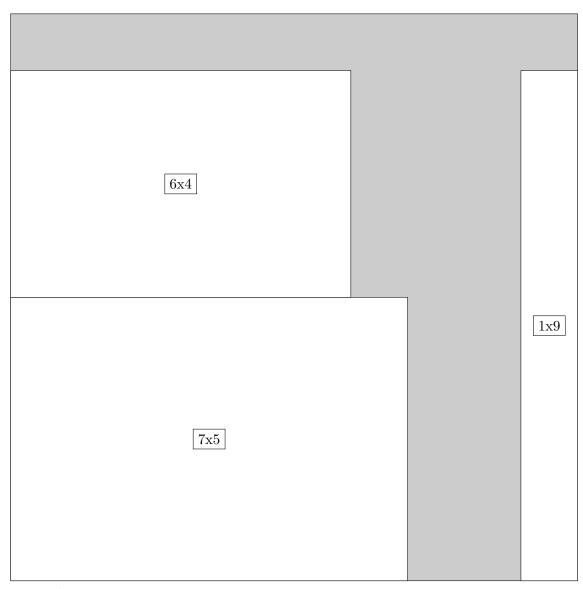
$$\mathbf{w}$$
 =2 , h =3 , x =8 , y =0 , v =6

$$w = 2$$
,  $h = 3$ ,  $x = 8$ ,  $y = 3$ ,  $v = 6$ 

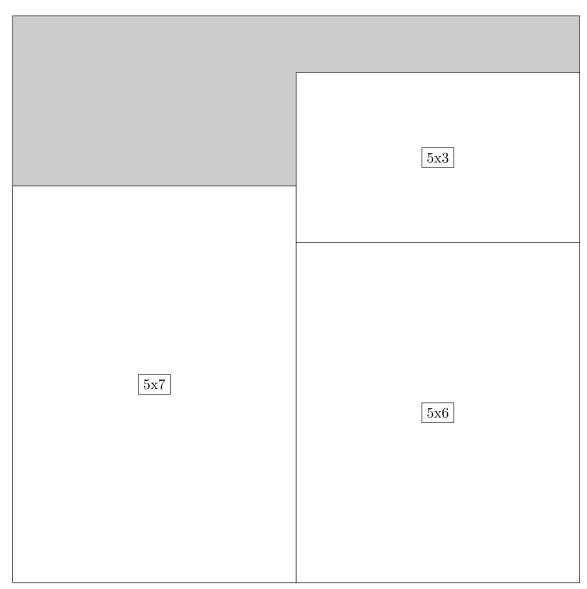


$$\begin{array}{l} w = 9 \ , \ h = 4 \ , \ x = 0 \ , \ y = 0 \ , \ v = 36 \\ w = 9 \ , \ h = 3 \ , \ x = 0 \ , \ y = 4 \ , \ v = 27 \\ w = 7 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 21 \end{array}$$

 $\mathbf{w}$  =1 , h =9 , x =9 , y =0 , v =9



 $\begin{array}{l} w = 7 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 35 \\ w = 6 \ , \ h = 4 \ , \ x = 0 \ , \ y = 5 \ , \ v = 24 \\ w = 1 \ , \ h = 9 \ , \ x = 9 \ , \ y = 0 \ , \ v = 9 \end{array}$ 



w=5 , h=7 , x=0 , y=0 , v=35

w =5 , h =6 , x =5 , y =0 , v =30

 $\mathbf{w}$  =5 , h =3 , x =5 , y =6 , v =15

