$ClassName: \ Class\_01.2bp\text{-}34$ 

 $\begin{array}{ll} \text{BinSize: } \underline{\mathbf{10} \times \mathbf{10}} \\ \text{ReduceSize: } \underline{\mathbf{10} \times \mathbf{10}} \end{array}$ 

TypeNum: <u>55</u> Num: <u>80</u> OutS: <u>2600</u> InS: <u>2352</u> Rate: <u>0.905</u> UB: <u>26</u> LB0: <u>26</u> LB: <u>26</u>

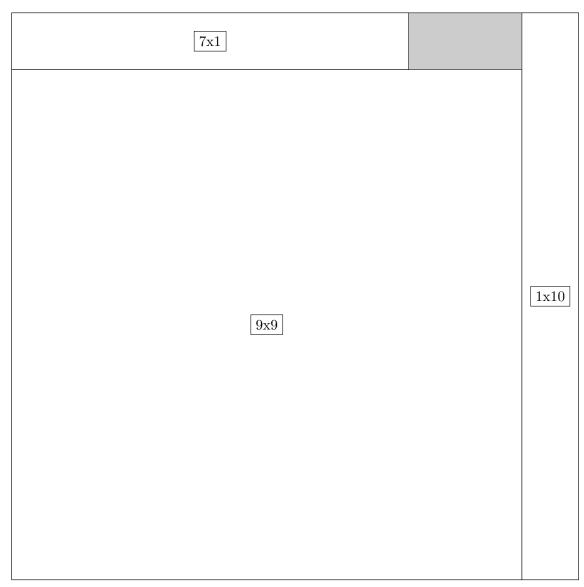
LBWithCut:  $\underline{26}$  NodeCut:  $\underline{0}$ 

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

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{26}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

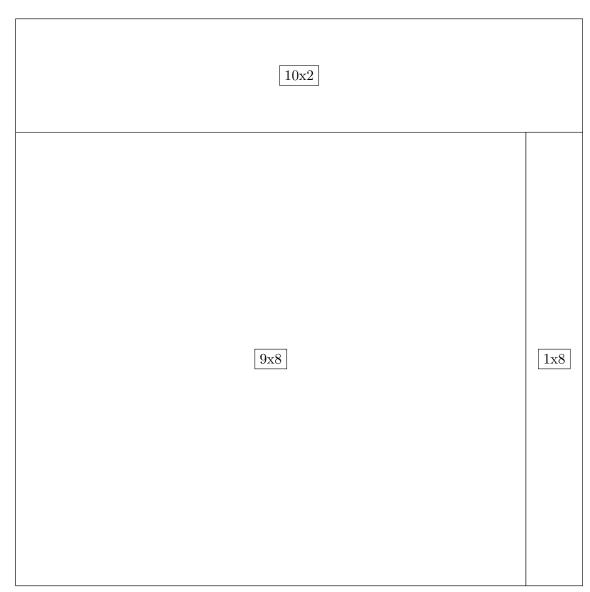
isOpt: **true** 

TimeOnInitSolution: 0.080 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.236 s

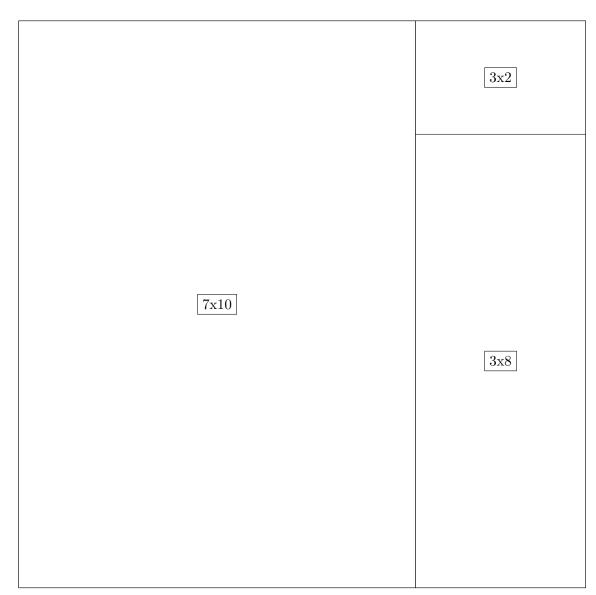


 $\begin{array}{l} w = 9 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 81 \\ w = 7 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 7 \\ w = 1 \ , \ h = 10 \ , \ x = 9 \ , \ y = 0 \ , \ v = 10 \end{array}$ 



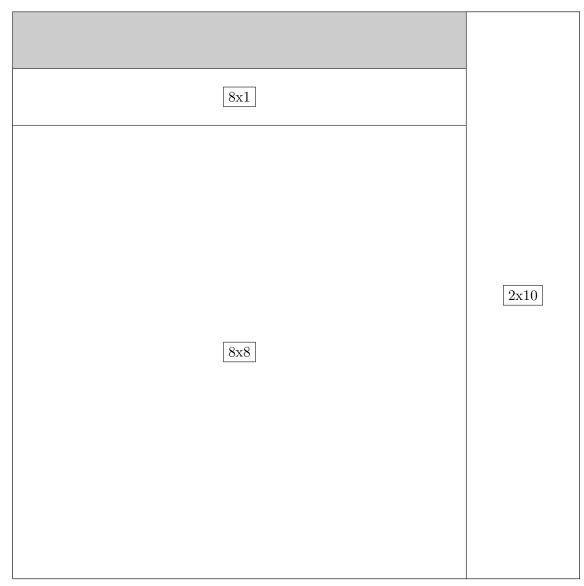


$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 72 \\ w = 10 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 20 \\ w = 1 \ , \ h = 8 \ , \ x = 9 \ , \ y = 0 \ , \ v = 8 \end{array}$$



$$\mathbf{w}$$
 =7 ,  $\mathbf{h}$  =10 ,  $\mathbf{x}$  =0 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =70

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



$$w=8$$
 ,  $h=8$  ,  $x=0$  ,  $y=0$  ,  $v=64$ 

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

$$\mathbf{w}$$
 =2 , h =10 , x =8 , y =0 , v =20

	[6x2]	
8x8		2x8

 $\begin{array}{l} w = 8 \;, \; h = 8 \;, \; x = 0 \;, \; y = 0 \;, \; v = 64 \\ w = 2 \;, \; h = 8 \;, \; x = 8 \;, \; y = 0 \;, \; v = 16 \end{array}$ 

 $\mathbf{w}$  =6 , h =2 , x =4 , y =8 , v =12

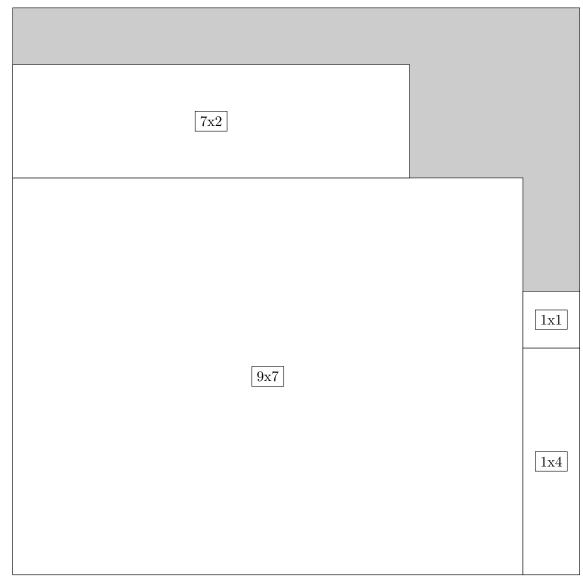
3x3		7x3
	9x7	1x7

$$\mathbf{w}$$
 =9 ,  $\mathbf{h}$  =7 ,  $\mathbf{x}$  =0 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =63

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

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

$$\mathbf{w}$$
 =1 , h =7 , x =9 , y =0 , v =7



$$w = 9$$
,  $h = 7$ ,  $x = 0$ ,  $y = 0$ ,  $v = 63$ 

$$\mathbf{w}$$
 =7 , h =2 , x =0 , y =7 , v =14

$$\mathbf{w}$$
 =1 , h =4 , x =9 , y =0 , v =4

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

10x1	
	[3x4]
7x9	[3x5]

$$w = 7$$
,  $h = 9$ ,  $x = 0$ ,  $y = 0$ ,  $v = 63$ 

$$\mathbf{w}$$
 =3 , h =5 , x =7 , y =0 , v =  
15

$$\mathbf{w}$$
 =3 , h =4 , x =7 , y =5 , v =12

$$\mathbf{w}$$
 =10 , h =1 , x =0 , y =9 , v =10



8x3	[2x2]
	2x4
8x7	2x4

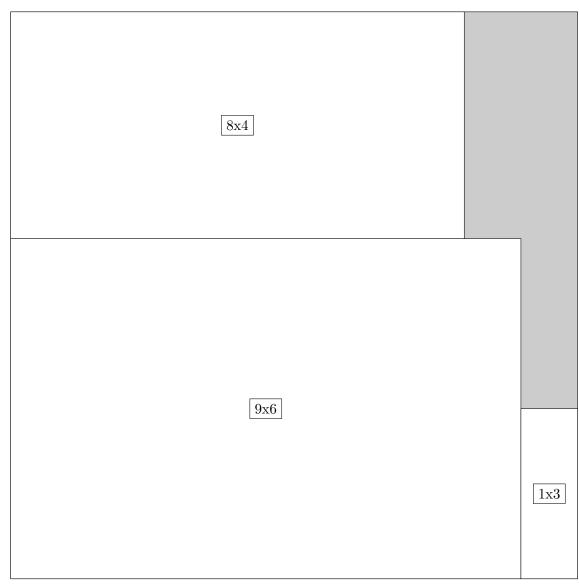
$$\mathbf{w}$$
 =8 , h =7 , x =0 , y =0 , v =  
56

$$\mathbf{w}$$
 =8 , h =3 , x =0 , y =7 , v =24

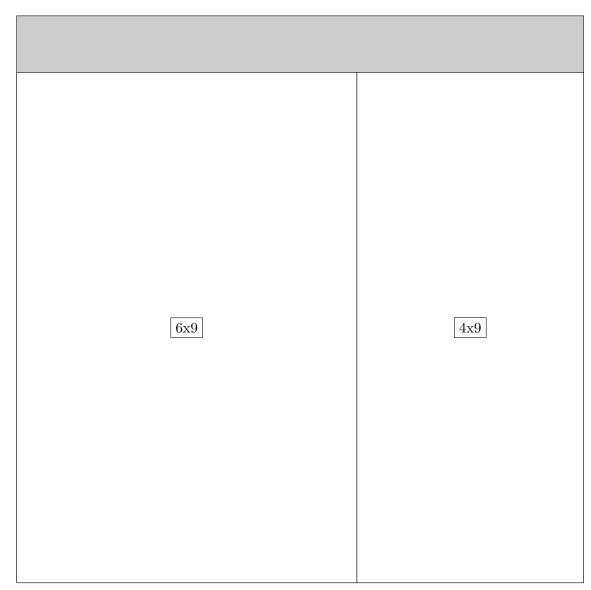
$$\mathbf{w}$$
 =2 , h =4 , x =8 , y =0 , v =8

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

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



$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 8 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 32 \\ w = 1 \ , \ h = 3 \ , \ x = 9 \ , \ y = 0 \ , \ v = 3 \end{array}$$



w =4 , h =9 , x =6 , y =0 , v =36 w =6 , h =9 , x =0 , y =0 , v =54

6x8	4x8	
O.C.		

 $\begin{array}{l} w = 6 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = \!\! 48 \\ w = \!\! 4 \ , \, h = \!\! 8 \ , \, x = \!\! 6 \ , \, y = \!\! 0 \ , \, v = \!\! 32 \end{array}$ 

6x8	4x8	
O.C.		

 $\begin{array}{l} w = 6 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = \!\! 48 \\ w = \!\! 4 \ , \, h = \!\! 8 \ , \, x = \!\! 6 \ , \, y = \!\! 0 \ , \, v = \!\! 32 \end{array}$ 

$10\mathrm{x}4$	
7x6	3x1 3x5

$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 10 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 40 \\ w = 3 \ , \ h = 5 \ , \ x = 7 \ , \ y = 0 \ , \ v = 15 \\ w = 3 \ , \ h = 1 \ , \ x = 7 \ , \ y = 5 \ , \ v = 3 \end{array}$$

3x4	[7x4]	
	7x6	3x1 3x5

$$\mathbf{w}$$
 =7 , h =6 , x =0 , y =0 , v =42

$$\mathbf{w}$$
 =7 , h =4 , x =3 , y =6 , v =28

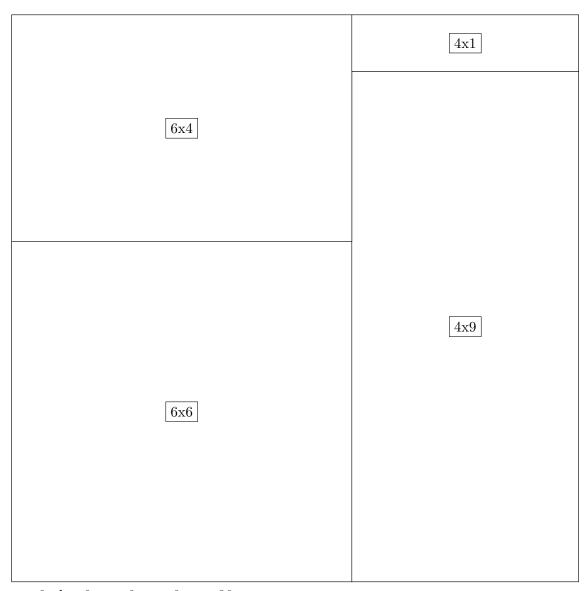
$$\mathbf{w}$$
 =3 , h =5 , x =7 , y =0 , v =  
15

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

$$w = 3, h = 1, x = 7, y = 5, v = 3$$

7x2	
6x7	[4x7]

 $\begin{array}{l} w=6\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=42\\ w=4\ ,\, h=7\ ,\, x=6\ ,\, y=0\ ,\, v=28\\ w=7\ ,\, h=2\ ,\, x=0\ ,\, y=7\ ,\, v=14 \end{array}$ 



$$\begin{array}{l} w = 6 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 36 \\ w = 4 \ , \ h = 9 \ , \ x = 6 \ , \ y = 0 \ , \ v = 36 \end{array}$$

$$\mathbf{w}$$
 =6 , h =4 , x =0 , y =6 , v =24

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

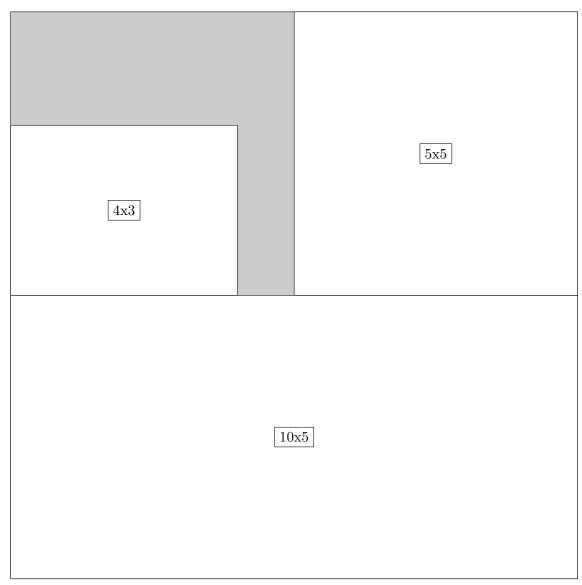
	[3x1]
6x4	
	4x9
6x6	

$$w=6$$
 ,  $h=6$  ,  $x=0$  ,  $y=0$  ,  $v=36$ 

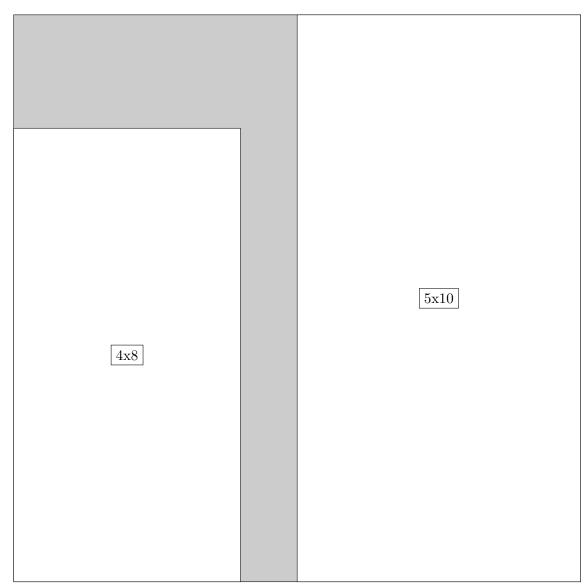
$$\le=4$$
 , h =9 , x =6 , y =0 , v =36

$$\mathbf{w}$$
 =6 , h =4 , x =0 , y =6 , v =24

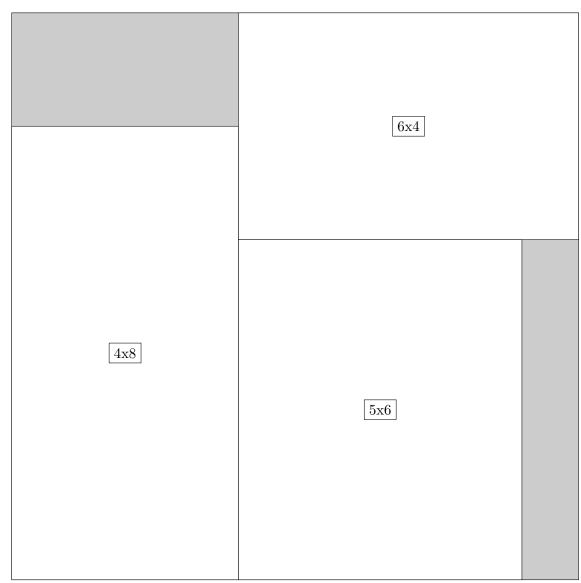
$$\mathbf{w}$$
 =3 , h =1 , x =6 , y =9 , v =3



 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 5 \ , \ h = & 5 \ , \ x = & 5 \ , \ y = & 5 \ , \ v = & 25 \\ w = & 4 \ , \ h = & 3 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 12 \end{array}$ 



 $\begin{array}{l} w = 5 \ , \ h = \! 10 \ , \ x = \! 5 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 4 \ , \ h = \! 8 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 32 \end{array}$ 



$$\mathbf{w}$$
 =4 , h =8 , x =0 , y =0 , v =32

$$w = 6$$
,  $h = 4$ ,  $x = 4$ ,  $y = 6$ ,  $v = 24$ 

[4x3]		
4x7	4x7	

$$\begin{array}{l} w = \! 4 \ , \ h = \! 7 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 28 \\ w = \! 4 \ , \ h = \! 3 \ , \ x = \! 0 \ , \ y = \! 7 \ , \ v = \! 12 \end{array}$$

$$w = 4$$
,  $h = 7$ ,  $x = 4$ ,  $y = 0$ ,  $v = 28$ 

