${\bf ClassName:}~{\bf Class\_01.2bp\text{-}10}$ 

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

TypeNum: <u>32</u> Num: <u>40</u> OutS: <u>1000</u> InS: <u>895</u> Rate: <u>0.895</u> UB: <u>10</u> LB: <u>10</u>

LBWithCut:  $\underline{\mathbf{10}}$ NodeCount:  $\underline{\mathbf{0}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{10}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt: **true** 

 $\begin{array}{ll} \text{TimeOnPrimal: } \underline{0.000 \text{ s}} \\ \text{TimeOnPricing: } \underline{0.000 \text{ s}} \\ \text{TimeOnRmp: } \underline{0.062 \text{ s}} \\ \text{TotalTime: } \underline{0.203 \text{ s}} \end{array}$ 

		3x1	
	7x4	3x4	
2x2	8x2		
10x3			

 $\le =10$  , h =3 , x =0 , y =0 , v =30

 $\le =8$  , h =2 , x =2 , y =3 , v = 16

 $\mathbf{w}$  =2 , h =2 , x =0 , y =3 , v =4

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

w = 3, h = 1, x = 7, y = 9, v = 3

 $\mathbf{w}$  =7 , h =4 , x =0 , y =5 , v =28

2x1			
2x9	2x10	6	x10

 $\begin{array}{l} w=6 \ , \ h=10 \ , \ x=4 \ , \ y=0 \ , \ v=60 \\ w=2 \ , \ h=10 \ , \ x=2 \ , \ y=0 \ , \ v=20 \\ w=2 \ , \ h=9 \ , \ x=0 \ , \ y=0 \ , \ v=18 \\ w=2 \ , \ h=1 \ , \ x=0 \ , \ y=9 \ , \ v=2 \end{array}$ 

1x3		[5x1]
	4x10	5x9
1x7		

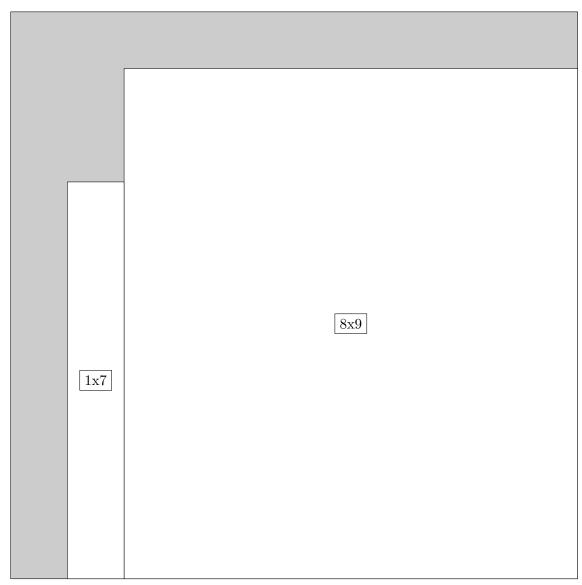
 $\mathbf{w}$  =5 ,  $\mathbf{h}$  =9 ,  $\mathbf{x}$  =5 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =45

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

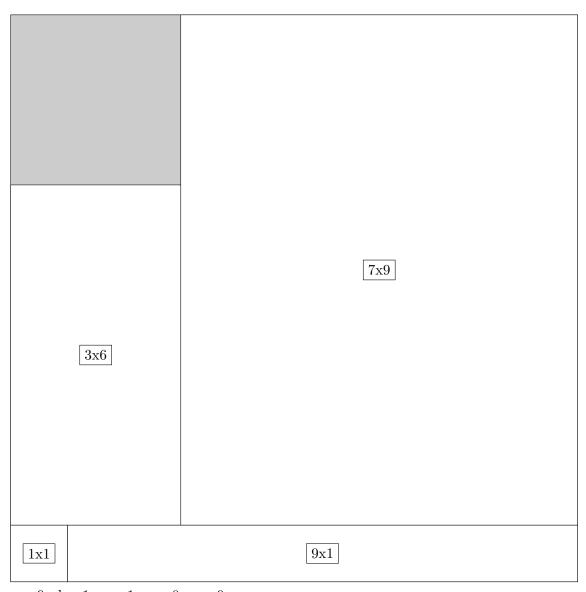
 $\mathbf{w}$  =4 , h =10 , x =1 , y =0 , v =40

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

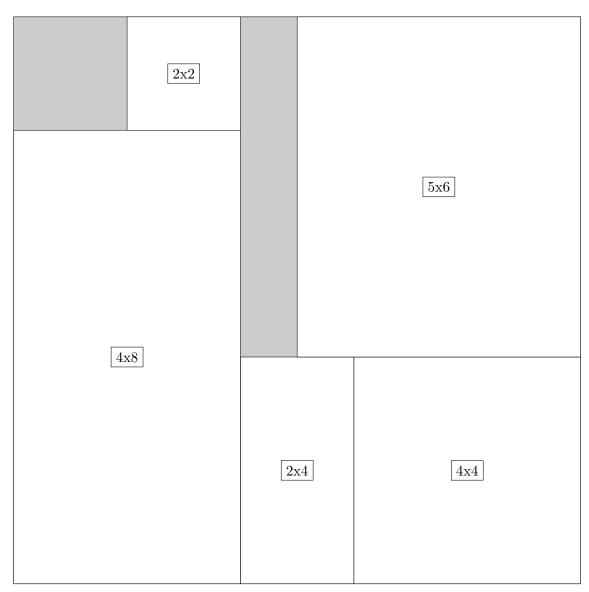
 $\mathbf{w}=\!\!1$  ,  $\mathbf{h}=\!\!3$  ,  $\mathbf{x}=\!\!0$  ,  $\mathbf{y}=\!\!7$  ,  $\mathbf{v}=\!\!3$ 



$$\begin{array}{c} w = 8 \; , \; h = 9 \; , \; x = 2 \; , \; y = 0 \; , \; v = 72 \\ w = 1 \; , \; h = 7 \; , \; x = 1 \; , \; y = 0 \; , \; v = 7 \end{array}$$



$$\begin{array}{l} w = 9 \ , \ h = 1 \ , \ x = 1 \ , \ y = 0 \ , \ v = 9 \\ w = 1 \ , \ h = 1 \ , \ x = 0 \ , \ y = 0 \ , \ v = 1 \\ w = 7 \ , \ h = 9 \ , \ x = 3 \ , \ y = 1 \ , \ v = 63 \\ w = 3 \ , \ h = 6 \ , \ x = 0 \ , \ y = 1 \ , \ v = 18 \end{array}$$



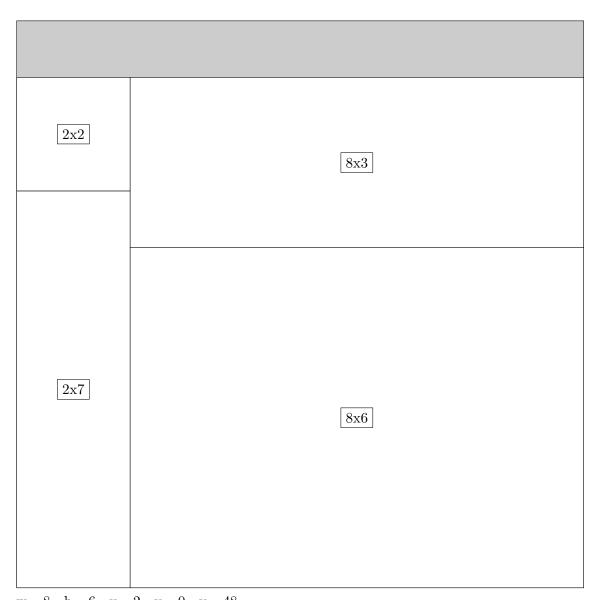
$$\mathbf{w}$$
 =4 ,  $\mathbf{h}$  =4 ,  $\mathbf{x}$  =6 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =16

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

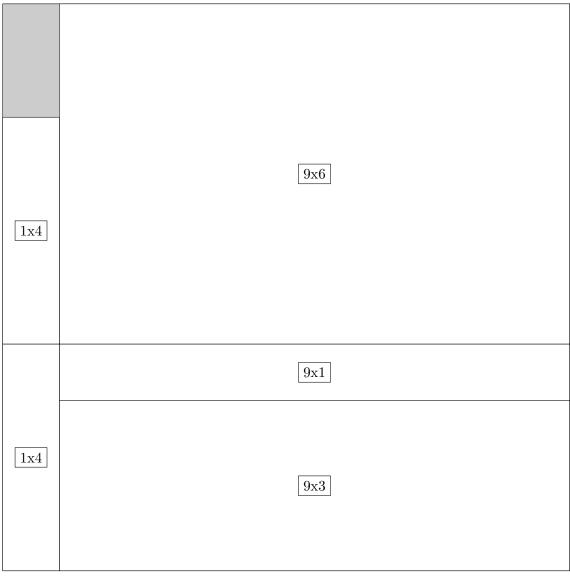
$$\mathbf{w}$$
 =5 , h =6 , x =5 , y =4 , v =30

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

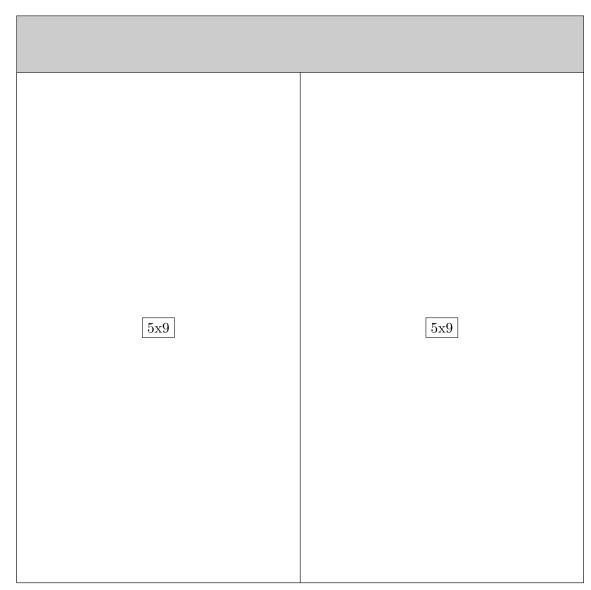
$$w = 2$$
,  $h = 2$ ,  $x = 2$ ,  $y = 8$ ,  $v = 4$ 



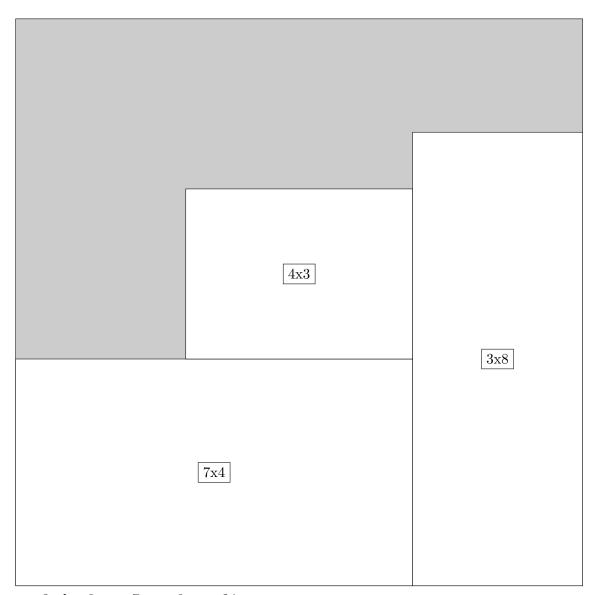
$$\begin{array}{l} w=8 \ , \ h=6 \ , \ x=2 \ , \ y=0 \ , \ v=48 \\ w=8 \ , \ h=3 \ , \ x=2 \ , \ y=6 \ , \ v=24 \\ w=2 \ , \ h=7 \ , \ x=0 \ , \ y=0 \ , \ v=14 \\ w=2 \ , \ h=2 \ , \ x=0 \ , \ y=7 \ , \ v=4 \end{array}$$



$$\begin{array}{l} w=9\ ,\, h=3\ ,\, x=1\ ,\, y=0\ ,\, v=27\\ w=9\ ,\, h=1\ ,\, x=1\ ,\, y=3\ ,\, v=9\\ w=1\ ,\, h=4\ ,\, x=0\ ,\, y=0\ ,\, v=4\\ w=9\ ,\, h=6\ ,\, x=1\ ,\, y=4\ ,\, v=54\\ w=1\ ,\, h=4\ ,\, x=0\ ,\, y=4\ ,\, v=4\\ \end{array}$$



w=5, h=9, x=5, y=0, v=45 w=5, h=9, x=0, y=0, v=45



 $\le =3$  , h = 8 , x = 7 , y = 0 , v = 24 w = 7, h = 4, x = 0, y = 0, v = 28 w = 4, h = 3, x = 3, y = 4, v = 12