${\bf ClassName:}~{\bf Class\_01.2bp\text{-}21}$ 

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

TypeNum: <u>45</u> Num: <u>60</u> OutS: <u>1900</u> InS: <u>1766</u> Rate: <u>0.929</u> UB: <u>19</u> LB0: <u>19</u>

LB:  $\underline{\mathbf{19}}$ LBWithCut:  $\underline{\mathbf{19}}$ 

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{19}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt:  $\underline{\mathbf{true}}$ 

TimeOnPrimal:  $\underline{0.000 \text{ s}}$ TimeOnPricing:  $\underline{0.000 \text{ s}}$ TimeOnRmp:  $\underline{0.078 \text{ s}}$ TotalTime:  $\underline{0.140 \text{ s}}$ 



 $\mathbf{w}$  =10 , h =10 , x =0 , y =0 , v =100



 $\mathbf{w}$  =10 , h =10 , x =0 , y =0 , v =100

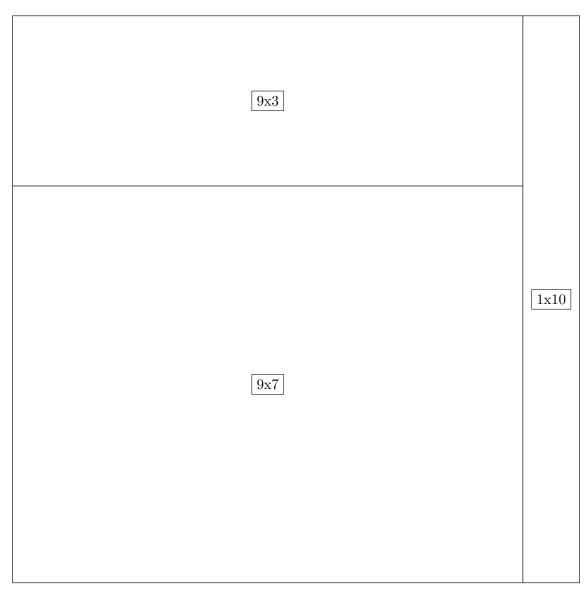


w =9, h =10, x =0, y =0, v =90 w =1, h =10, x =9, y =0, v =10

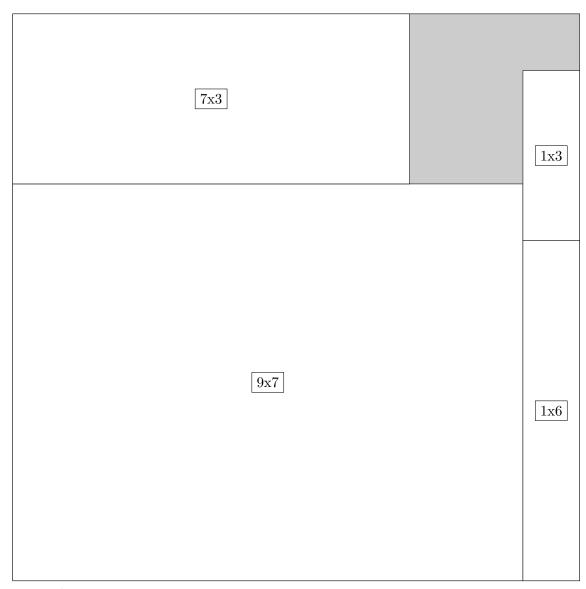


	8x2	
8x8		2x8

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



$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 9 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 27 \\ w = 1 \ , \ h = 10 \ , \ x = 9 \ , \ y = 0 \ , \ v = 10 \end{array}$$



$$\le =9$$
 , h =7 , x =0 , y =0 , v =63

$$\mathbf{w}$$
 =7 , h =3 , x =0 , y =7 , v =21

$$\mathbf{w}$$
 =1 , h =6 , x =9 , y =0 , v =6

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

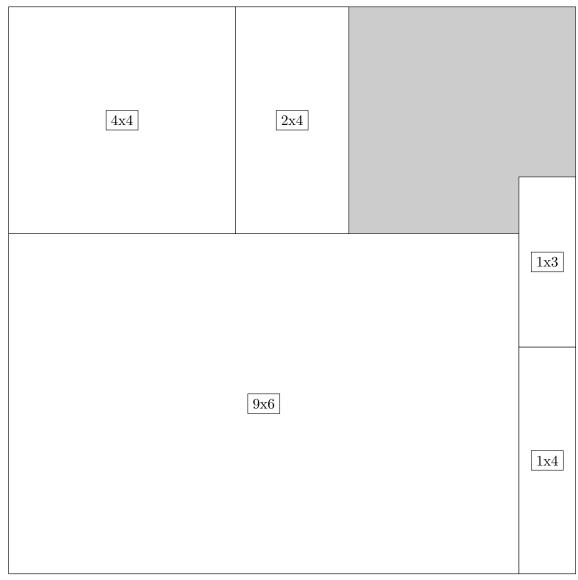
3x2		7x2
	7x8	3x8

$$\begin{array}{l} w = 7 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 56 \\ w = 3 \ , \ h = 8 \ , \ x = 7 \ , \ y = 0 \ , \ v = 24 \\ w = 7 \ , \ h = 2 \ , \ x = 3 \ , \ y = 8 \ , \ v = 14 \end{array}$$

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

	5x1
[5x4]	[5x3]
9x6	1x5

$$\begin{array}{l} w=9 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=54 \\ w=5 \ , \ h=4 \ , \ x=0 \ , \ y=6 \ , \ v=20 \\ w=5 \ , \ h=3 \ , \ x=5 \ , \ y=6 \ , \ v=15 \\ w=5 \ , \ h=1 \ , \ x=5 \ , \ y=9 \ , \ v=5 \\ w=1 \ , \ h=5 \ , \ x=9 \ , \ y=0 \ , \ v=5 \end{array}$$



$$w = 9$$
,  $h = 6$ ,  $x = 0$ ,  $y = 0$ ,  $v = 54$ 

$$\begin{array}{l} w = \! 4 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 6 \ , \ v = \! 16 \\ w = \! 2 \ , \ h = \! 4 \ , \ x = \! 4 \ , \ y = \! 6 \ , \ v = \! 8 \end{array}$$

$$w = 1$$
,  $h = 4$ ,  $x = 9$ ,  $y = 0$ ,  $v = 4$ 

$$w = 1, h = 4, x = 9, y = 0, v = 4$$

$$w = 1$$
,  $h = 3$ ,  $x = 9$ ,  $y = 4$ ,  $v = 3$ 

8x4	
	2x9
8x6	

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

$$w = 2$$
,  $h = 9$ ,  $x = 8$ ,  $y = 0$ ,  $v = 18$ 

6x8	4x8	
O.C.		

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

10x3	
7x1	
7x6	[3x7]

$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 30 \\ w = 3 \ , \ h = 7 \ , \ x = 7 \ , \ y = 0 \ , \ v = 21 \end{array}$$

w = 7, h = 1, x = 0, y = 6, v = 7

	62	x1
	10x3	
		3x3
7x6		3x3

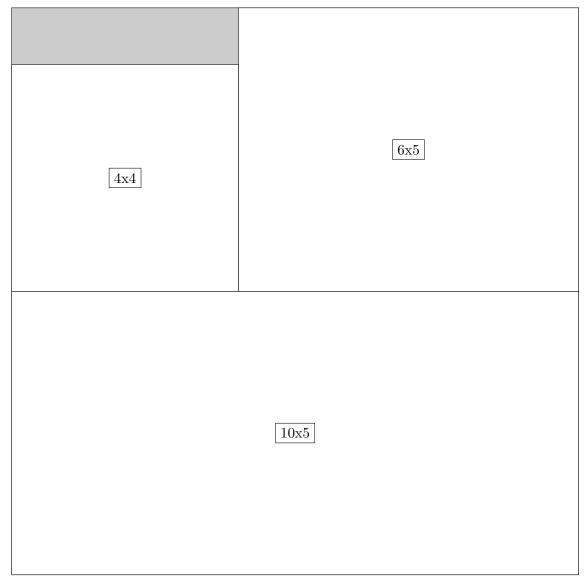
$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 6 \ , \ v = 30 \end{array}$$

$$w = 3$$
,  $h = 3$ ,  $x = 7$ ,  $y = 0$ ,  $v = 9$ 

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

10x3	
6x7	4x7

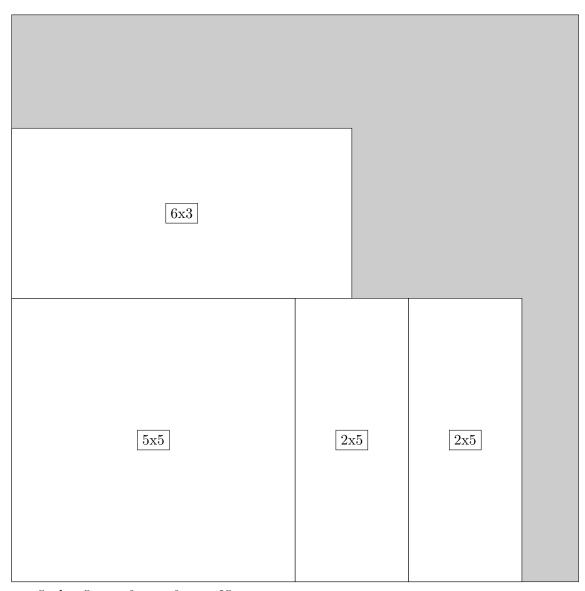
$$\begin{array}{l} w = 6 \;,\; h = 7 \;,\; x = 0 \;,\; y = 0 \;,\; v = 42 \\ w = 10 \;,\; h = 3 \;,\; x = 0 \;,\; y = 7 \;,\; v = 30 \\ w = 4 \;,\; h = 7 \;,\; x = 6 \;,\; y = 0 \;,\; v = 28 \end{array}$$



 $\begin{array}{l} w = \! 10 \; , \; h = \! 5 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 50 \\ w = \! 6 \; , \; h = \! 5 \; , \; x = \! 4 \; , \; y = \! 5 \; , \; v = \! 30 \\ w = \! 4 \; , \; h = \! 4 \; , \; x = \! 0 \; , \; y = \! 5 \; , \; v = \! 16 \end{array}$ 

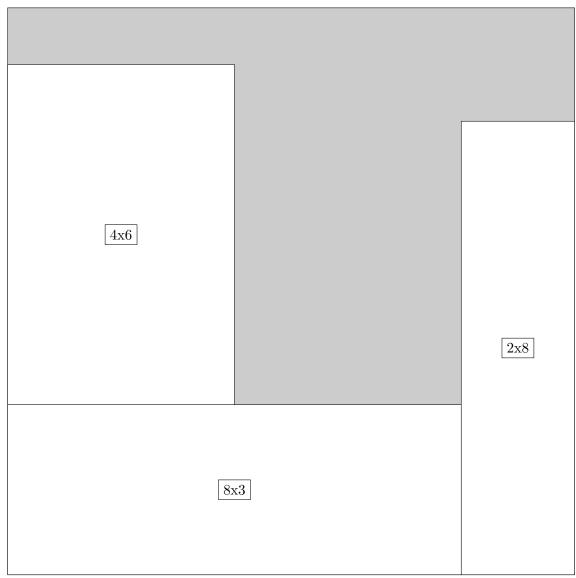
	6x1	
5x9	5x9	

 $\begin{array}{l} w = 5 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 45 \\ w = 5 \ , \ h = 9 \ , \ x = 5 \ , \ y = 0 \ , \ v = 45 \\ w = 6 \ , \ h = 1 \ , \ x = 4 \ , \ y = 9 \ , \ v = 6 \end{array}$ 



$$\mathbf{w}$$
 =2 , h =5 , x =5 , y =0 , v =10

$$\mathbf{w}$$
 =2 , h =5 , x =7 , y =0 , v =10



$$\le =8$$
 , h =3 , x =0 , y =0 , v =  
24

$$\mathbf{w}$$
 =4 , h =6 , x =0 , y =3 , v =24

$$\mathbf{w}$$
 =2 , h =8 , x =8 , y =0 , v =  
16