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

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

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: <u>19</u>

LBWithCut:  $\underline{\mathbf{19}}$ NodeCut:  $\underline{\mathbf{0}}$ 

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

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

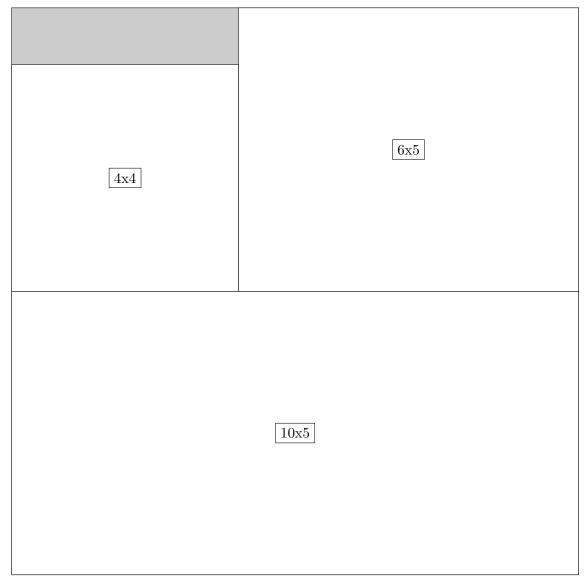
TimeOnInitSolution:  $\underline{600.000 \text{ s}}$ 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.328 s



		$8\mathrm{x}4$
1x10	1x10	8x6

 $\begin{array}{l} w = 8 \;,\; h = 6 \;,\; x = 2 \;,\; y = 0 \;,\; v = 48 \\ w = 8 \;,\; h = 4 \;,\; x = 2 \;,\; y = 6 \;,\; v = 32 \\ w = 1 \;,\; h = 10 \;,\; x = 1 \;,\; y = 0 \;,\; v = 10 \\ w = 1 \;,\; h = 10 \;,\; x = 0 \;,\; y = 0 \;,\; v = 10 \end{array}$ 



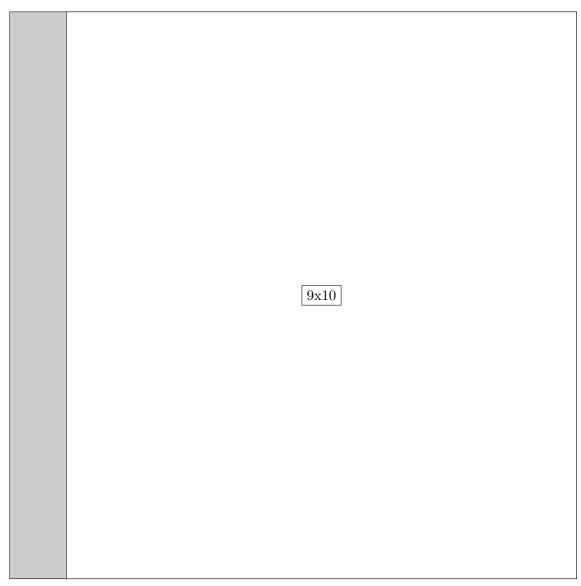
 $\begin{array}{l} w = \! 10 \; , \; h = \! 5 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 50 \\ w = \! 6 \; , \; h = \! 5 \; , \; x = \! 4 \; , \; y = \! 5 \; , \; v = \! 30 \\ w = \! 4 \; , \; h = \! 4 \; , \; x = \! 0 \; , \; y = \! 5 \; , \; v = \! 16 \end{array}$ 



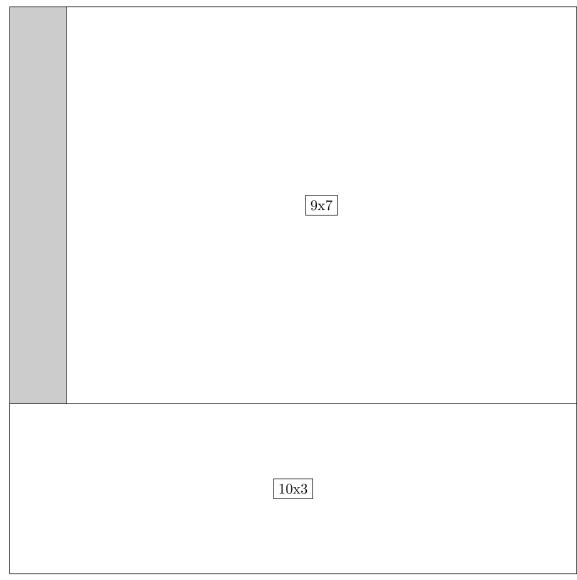
 $\mathbf{w}$  =10 , h =10 , x =0 , y =0 , v =100



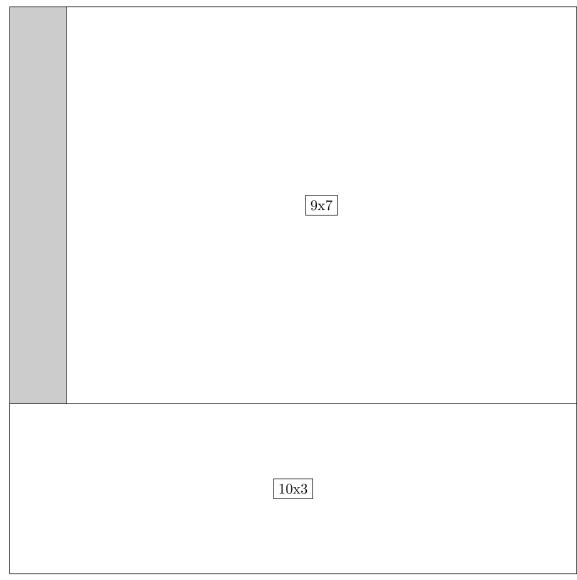
 $\mathbf{w}$  =10 , h =10 , x =0 , y =0 , v =100



 $\le =9$  , h =10 , x =1 , y =0 , v =90



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



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



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

	7x1	
	8x3	2x4
1x5	9x6	

$$\begin{array}{l} w=9\ ,\, h=6\ ,\, x=1\ ,\, y=0\ ,\, v=54\\ w=1\ ,\, h=5\ ,\, x=0\ ,\, y=0\ ,\, v=5\\ w=2\ ,\, h=4\ ,\, x=8\ ,\, y=6\ ,\, v=8\\ w=8\ ,\, h=3\ ,\, x=0\ ,\, y=6\ ,\, v=24\\ w=7\ ,\, h=1\ ,\, x=1\ ,\, y=9\ ,\, v=7\\ \end{array}$$

6x1	
7x3	3x3
7x6	3x7

$$\le =3$$
 ,  $h$  =7 ,  $x$  =7 ,  $y$  =0 ,  $v$  =21

$$\mathbf{w}$$
 =3 , h =3 , x =7 , y =7 , v =9

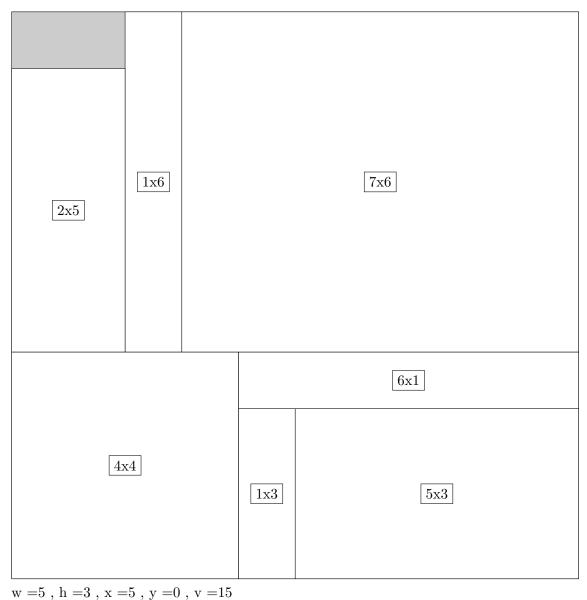
$$\mathbf{w}$$
 =7 , h =6 , x =0 , y =0 , v =42

$$\mathbf{w}$$
 =7 , h =3 , x =0 , y =6 , v =21

$$w = 6$$
,  $h = 1$ ,  $x = 1$ ,  $y = 9$ ,  $v = 6$ 

	8x2
2x8	8x8

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

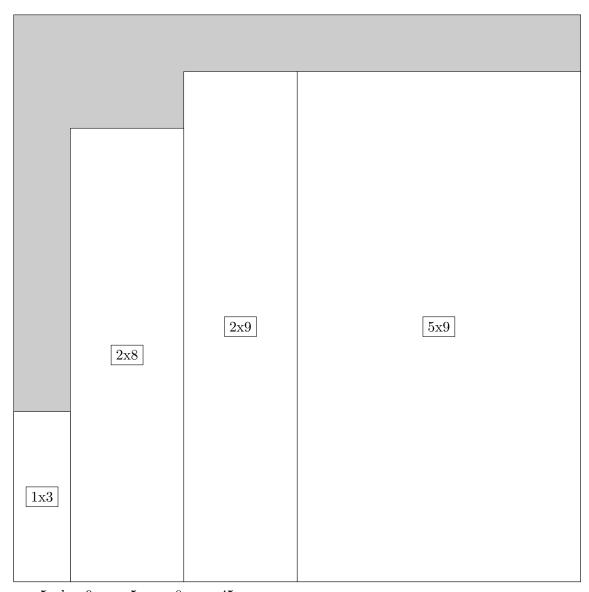


w = 1, h = 3, x = 4, y = 0, v = 13 w = 1, h = 3, x = 4, y = 0, v = 3 w = 6, h = 1, x = 4, y = 3, v = 6 w = 4, h = 4, x = 0, y = 0, v = 16 w = 7, h = 6, x = 3, y = 4, v = 42 w = 1, h = 6, x = 2, y = 4, v = 6

 $\le =2$  , h =5 , x =0 , y =4 , v = 10

3x8 7x8		7x2
3x8 7x8		
	3x8	7x8

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



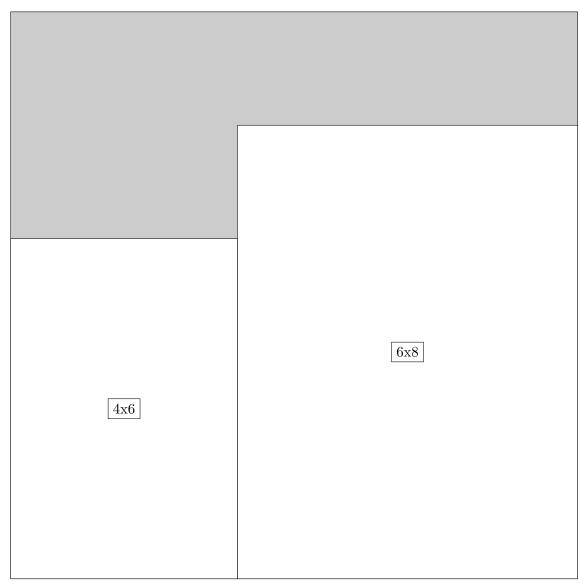
 $\begin{array}{l} w = 5 \ , \ h = 9 \ , \ x = 5 \ , \ y = 0 \ , \ v = 45 \\ w = 2 \ , \ h = 9 \ , \ x = 3 \ , \ y = 0 \ , \ v = 18 \\ w = 2 \ , \ h = 8 \ , \ x = 1 \ , \ y = 0 \ , \ v = 16 \\ w = 1 \ , \ h = 3 \ , \ x = 0 \ , \ y = 0 \ , \ v = 3 \end{array}$ 

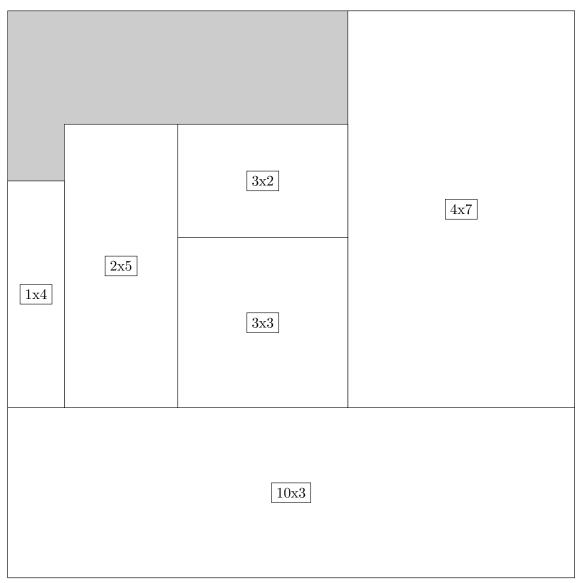
	5x1
5x4	
5x5	5x9

 $\begin{array}{l} w = 5 \ , \ h = 9 \ , \ x = 5 \ , \ y = 0 \ , \ v = 45 \\ w = 5 \ , \ h = 1 \ , \ x = 5 \ , \ y = 9 \ , \ v = 5 \\ w = 5 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 25 \\ w = 5 \ , \ h = 4 \ , \ x = 0 \ , \ y = 5 \ , \ v = 20 \end{array}$ 

	6x3
4x8	
	6x7

 $\begin{array}{l} w = 6 \ , \ h = 7 \ , \ x = 4 \ , \ y = 0 \ , \ v = 42 \\ w = 6 \ , \ h = 3 \ , \ x = 4 \ , \ y = 7 \ , \ v = 18 \\ w = 4 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 32 \end{array}$ 





$$w = 10$$
,  $h = 3$ ,  $x = 0$ ,  $y = 0$ ,  $v = 30$ 

$$\le=4$$
 , h =7 , x =6 , y =3 , v =28

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

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

$$\mathbf{w}$$
 =2 , h =5 , x =1 , y =3 , v =  
10

$$\mathbf{w}$$
 =1 , h =4 , x =0 , y =3 , v =4