${\bf ClassName:}~{\bf Class_01.2bp\text{-}20}$

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

TypeNum: <u>43</u> Num: <u>60</u> OutS: <u>2300</u> InS: <u>2007</u> Rate: <u>0.873</u> UB: <u>23</u> LB0: <u>23</u> LB: <u>23</u>

LBWithCut: $\underline{\mathbf{23}}$ NodeCut: $\underline{\mathbf{0}}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{23}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

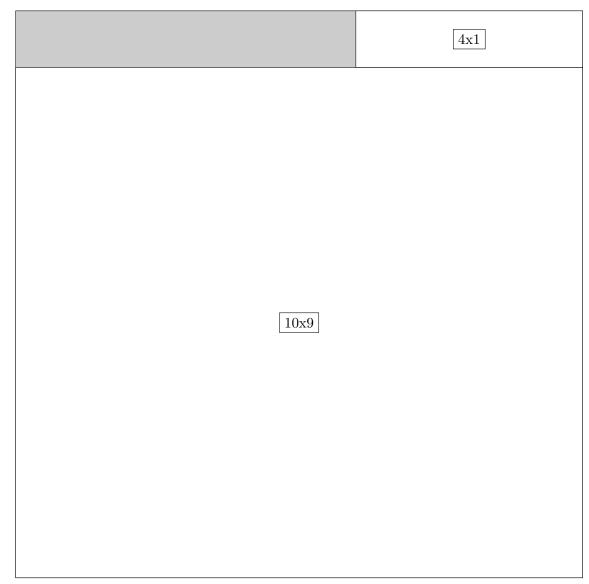
isOpt: $\underline{\mathbf{true}}$

TimeOnInitSolution: $\underline{120.010 \text{ s}}$

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 120.150 s



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

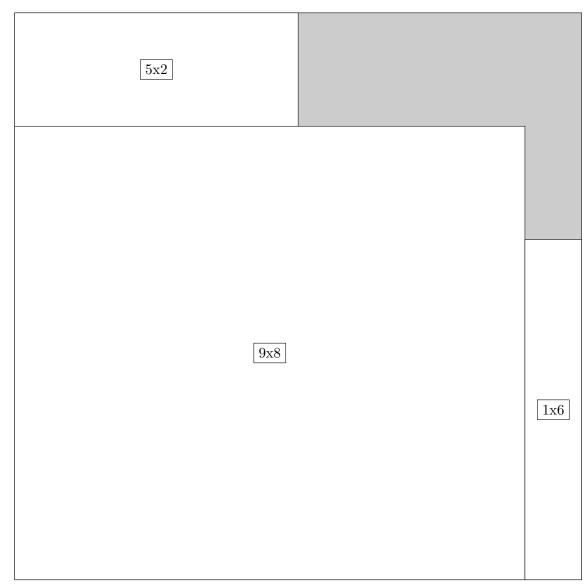




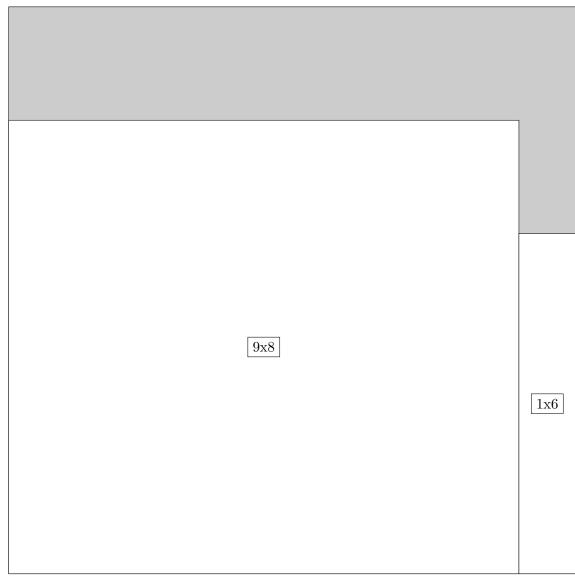
w = 10, h = 9, x = 0, y = 0, v = 90

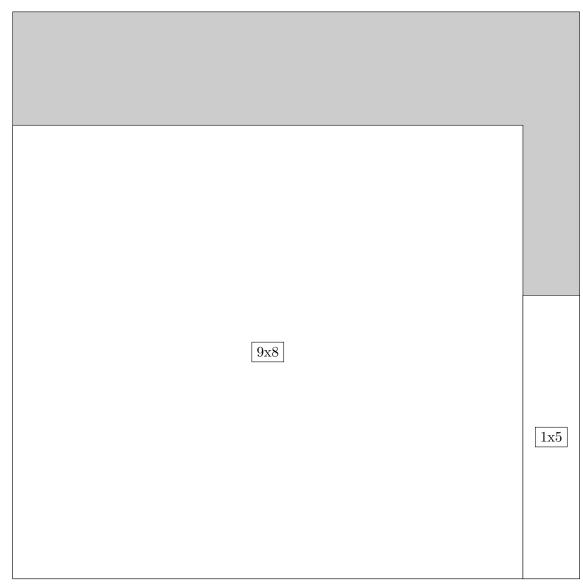






$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 72 \\ w = 5 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 10 \\ w = 1 \ , \ h = 6 \ , \ x = 9 \ , \ y = 0 \ , \ v = 6 \end{array}$$



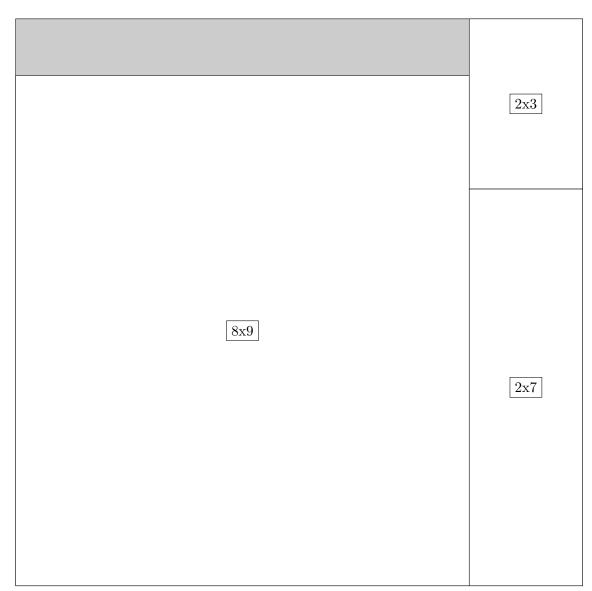


2x2	[8x2]	
	9x8	
		1x3

$$\begin{array}{c} w = 9 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = 72 \\ w = 8 \ , \, h = 2 \ , \, x = 2 \ , \, y = 8 \ , \, v = 16 \end{array}$$

$$w = 2$$
 , $h = 2$, $x = 0$, $y = 8$, $v = 4$

$$\mathbf{w}$$
 =1 , h =3 , x =9 , y =0 , v =3



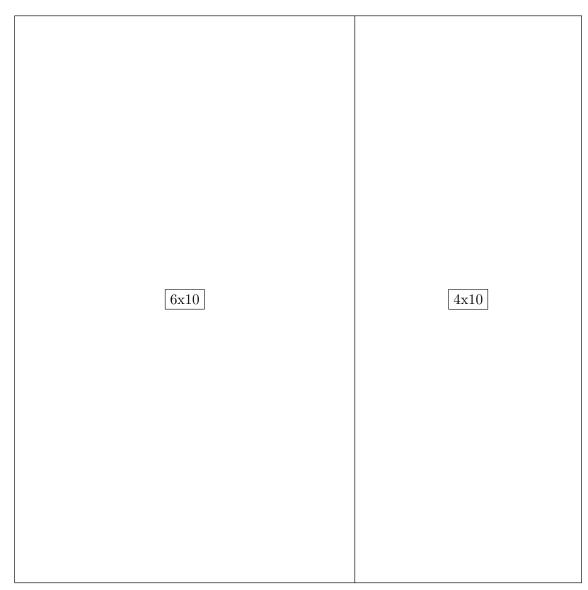
$$\mathbf{w}$$
 =8 , h =9 , x =0 , y =0 , v =72

$$\mathbf{w}$$
 =2 , h =7 , x =8 , y =0 , v =14

$$\mathbf{w}$$
 =2 , h =3 , x =8 , y =7 , v =6

6x3	4x3
9x7	

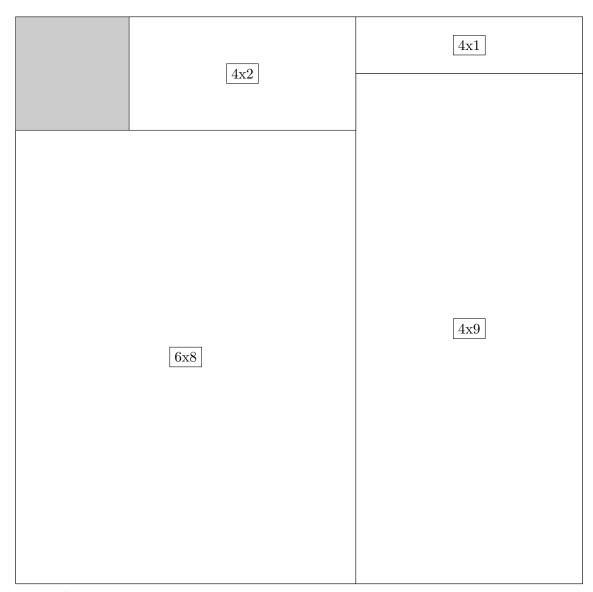
$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 6 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 18 \\ w = 4 \ , \ h = 3 \ , \ x = 6 \ , \ y = 7 \ , \ v = 12 \end{array}$$



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

7x1	
7x8	3x9

$$\begin{array}{l} w = 7 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 56 \\ w = 3 \ , \ h = 9 \ , \ x = 7 \ , \ y = 0 \ , \ v = 27 \\ w = 7 \ , \ h = 1 \ , \ x = 0 \ , \ y = 8 \ , \ v = 7 \end{array}$$



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

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

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

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

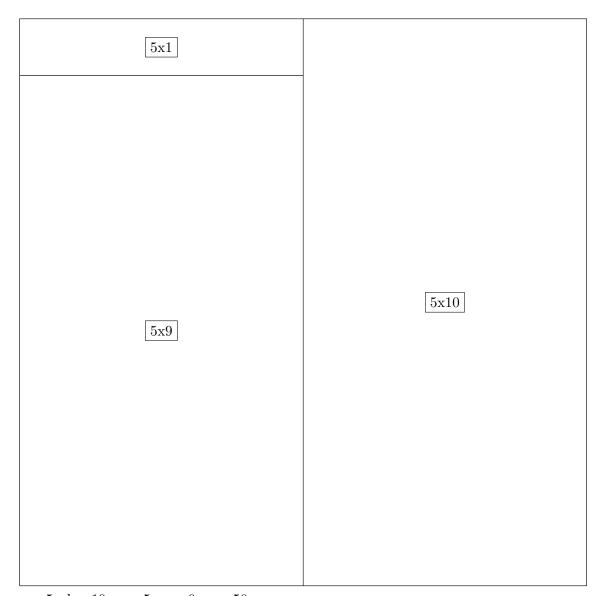
	2x1
[7x4]	
7x6	3x9

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

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

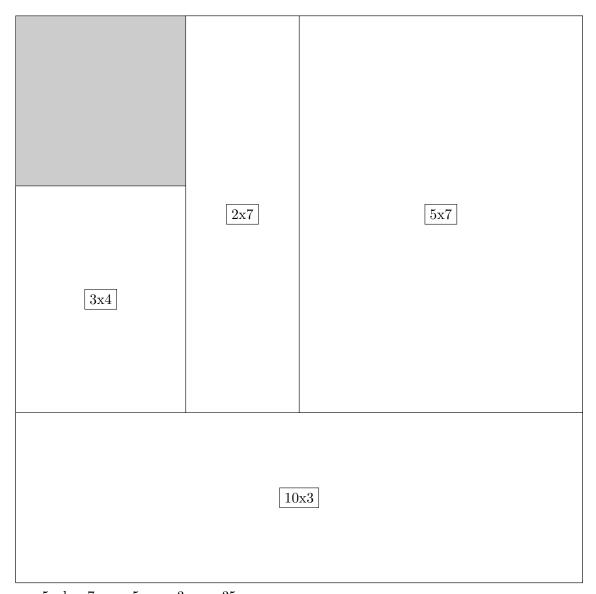
$$\mathbf{w}$$
 =3 , h =9 , x =7 , y =0 , v =27

$$\mathbf{w}$$
 =2 , h =1 , x =7 , y =9 , v =2

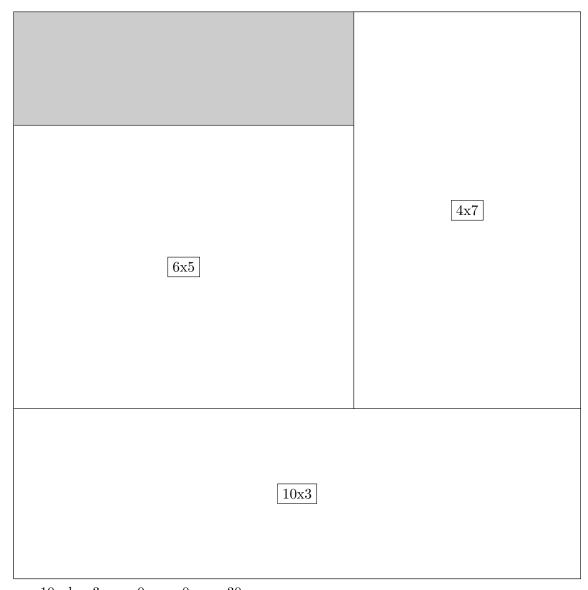


 $\begin{array}{l} w = \! 5 \ , \ h = \! 10 \ , \ x = \! 5 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 5 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 45 \end{array}$

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



 $\begin{array}{l} w = 5 \ , \ h = 7 \ , \ x = 5 \ , \ y = 3 \ , \ v = 35 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 2 \ , \ h = 7 \ , \ x = 3 \ , \ y = 3 \ , \ v = 14 \\ w = 3 \ , \ h = 4 \ , \ x = 0 \ , \ y = 3 \ , \ v = 12 \end{array}$



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

 \mathbf{w} =6 , h =5 , x =0 , y =3 , v =30

w = 4, h = 7, x = 6, y = 3, v = 28

8	8x4	
8	8x4	2x4

$$w = 8$$
, $h = 4$, $x = 0$, $y = 0$, $v = 32$

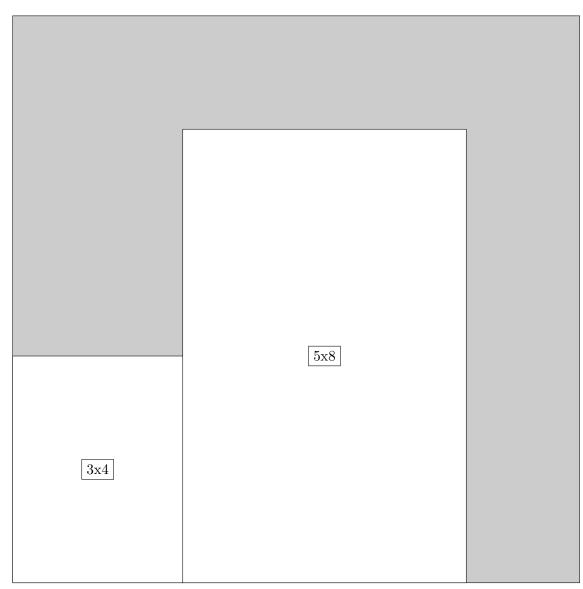
$$\mathbf{w}$$
 =8 , h =4 , x =0 , y =4 , v =32

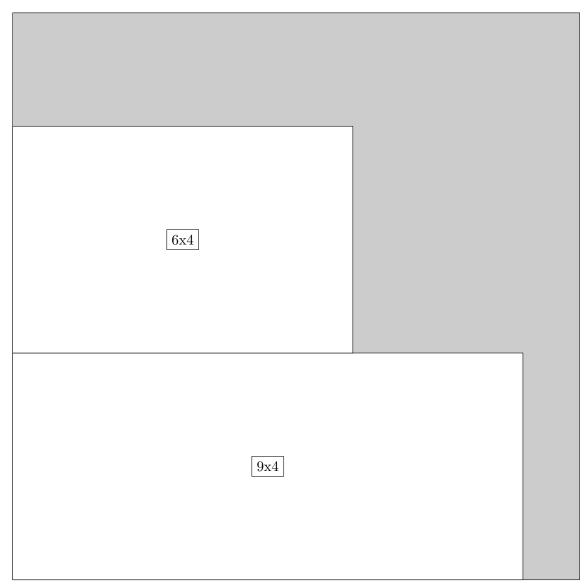
$$w = 2$$
 , $h = 4$, $x = 8$, $y = 0$, $v = 8$

8x4	
OX4	
6x4	4x4

$$\begin{array}{l} w = 8 \ , \, h = \! 4 \ , \, x = \! 0 \ , \, y = \! 4 \ , \, v = \! 32 \\ w = \! 6 \ , \, h = \! 4 \ , \, x = \! 0 \ , \, y = \! 0 \ , \, v = \! 24 \\ \end{array}$$

$$w = 4$$
, $h = 4$, $x = 6$, $y = 0$, $v = 16$





5x8	5x8

 $\begin{array}{l} w = 5 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = \!\! 40 \\ w = \!\! 5 \ , \, h = \!\! 8 \ , \, x = \!\! 5 \ , \, y = \!\! 0 \ , \, v = \!\! 40 \end{array}$