${\bf ClassName:}~{\bf Class_01.2bp\text{-}31}$

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

TypeNum: <u>57</u> Num: <u>80</u> OutS: <u>2600</u> InS: <u>2407</u> Rate: <u>0.926</u> UB: <u>26</u> LB0: <u>26</u> LB: <u>26</u>

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

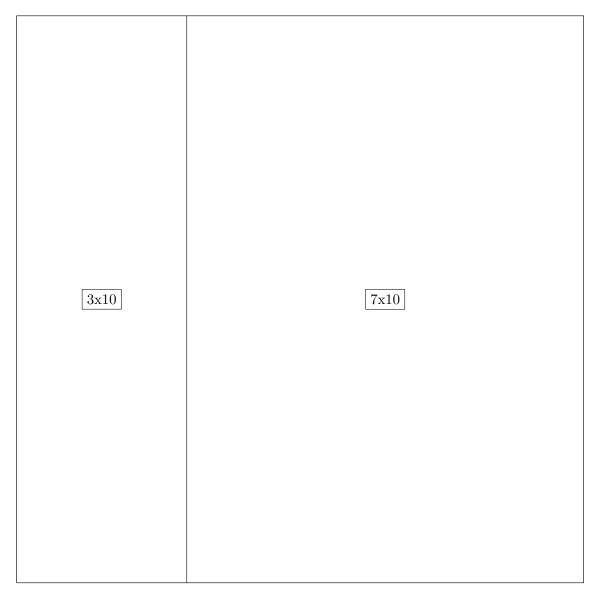
ExtendedNodeCnt: $\underline{\mathbf{1}}$

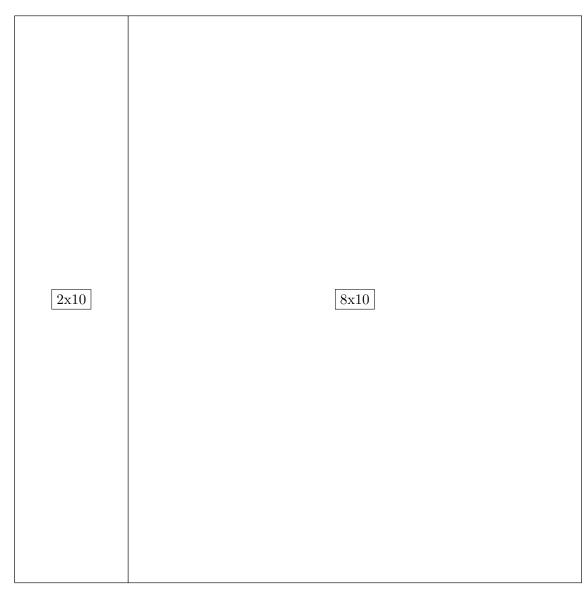
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{26}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

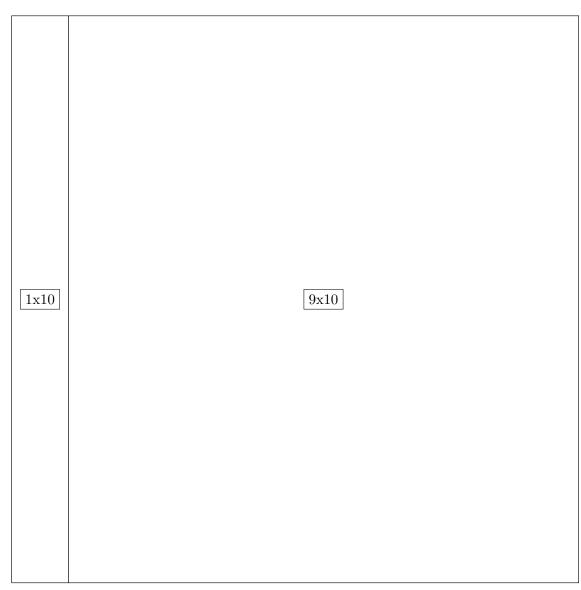
isOpt: $\underline{\mathbf{true}}$

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 600.329 s









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



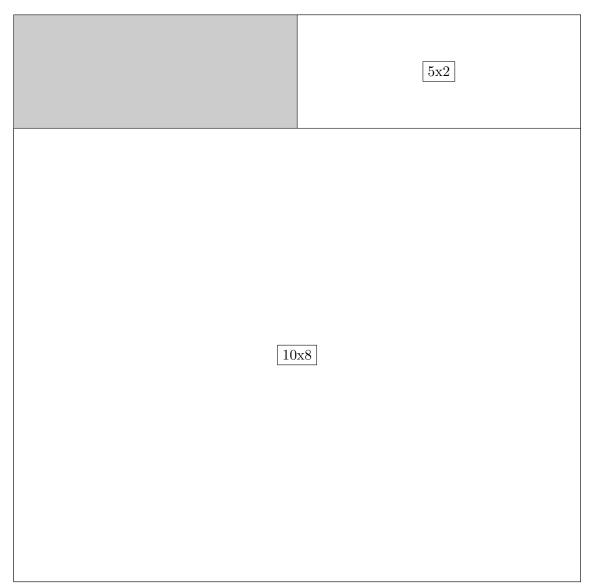
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100



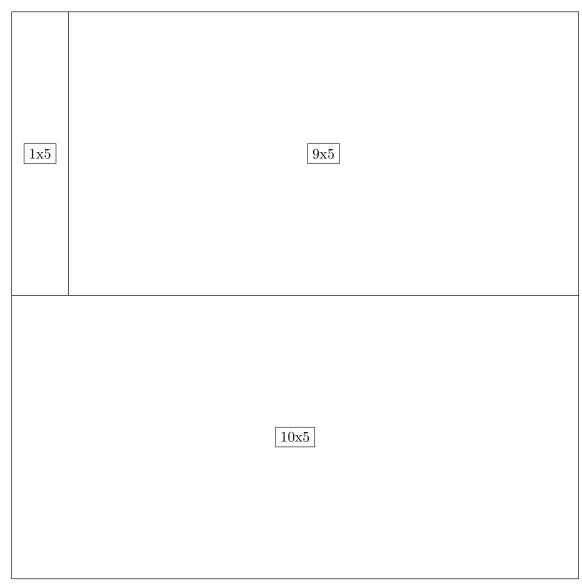
w = 10, h = 8, x = 0, y = 0, v = 80



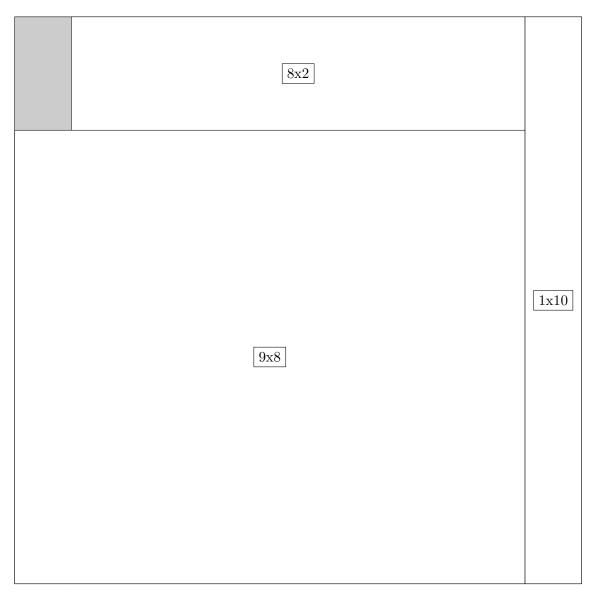
w = 10, h = 9, x = 0, y = 0, v = 90



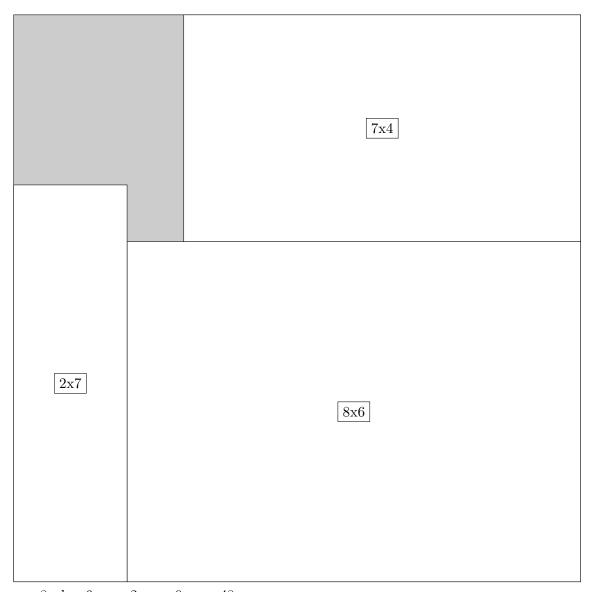
 $\begin{array}{l} w = \! 10 \ , \ h = \! 8 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 80 \\ w = \! 5 \ , \ h = \! 2 \ , \ x = \! 5 \ , \ y = \! 8 \ , \ v = \! 10 \end{array}$



$$\begin{array}{l} w = \! 10 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 9 \ , \ h = \! 5 \ , \ x = \! 1 \ , \ y = \! 5 \ , \ v = \! 45 \\ w = \! 1 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 5 \ , \ v = \! 5 \end{array}$$



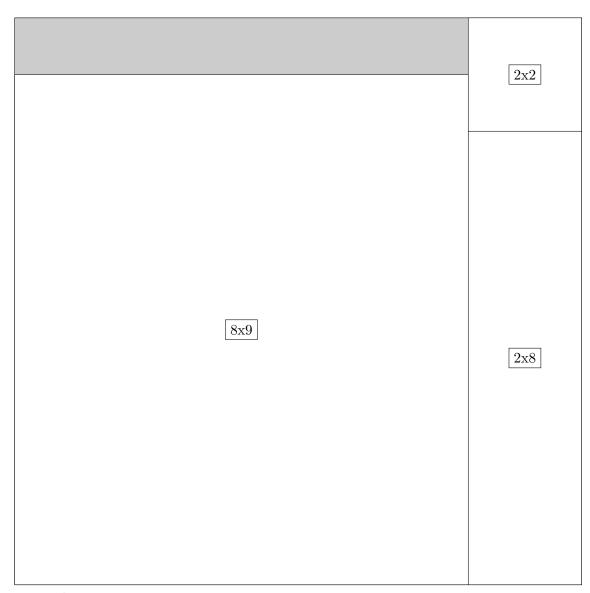
 $\begin{array}{l} w = 1 \ , \ h = \! 10 \ , \ x = \! 9 \ , \ y = \! 0 \ , \ v = \! 10 \\ w = \! 9 \ , \ h = \! 8 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 72 \\ w = \! 8 \ , \ h = \! 2 \ , \ x = \! 1 \ , \ y = \! 8 \ , \ v = \! 16 \end{array}$



$$\begin{array}{l} w = 8 \ , \ h = 6 \ , \ x = 2 \ , \ y = 0 \ , \ v = 48 \\ w = 7 \ , \ h = 4 \ , \ x = 3 \ , \ y = 6 \ , \ v = 28 \\ w = 2 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 14 \end{array}$$

		[8x3]	
42	x7		6x7

 $\begin{array}{l} w = 6 \ , \ h = 7 \ , \ x = 4 \ , \ y = 0 \ , \ v = 42 \\ w = 4 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 28 \\ w = 8 \ , \ h = 3 \ , \ x = 2 \ , \ y = 7 \ , \ v = 24 \end{array}$



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

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

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

	[3x1]
	[3x3]
7x9	
	[3x6]

 \mathbf{w} =3 , h =6 , x =7 , y =0 , v =18

 \mathbf{w} =3 , h =3 , x =7 , y =6 , v =9

 ≤ 3 , h =1 , x =7 , y =9 , v =3

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

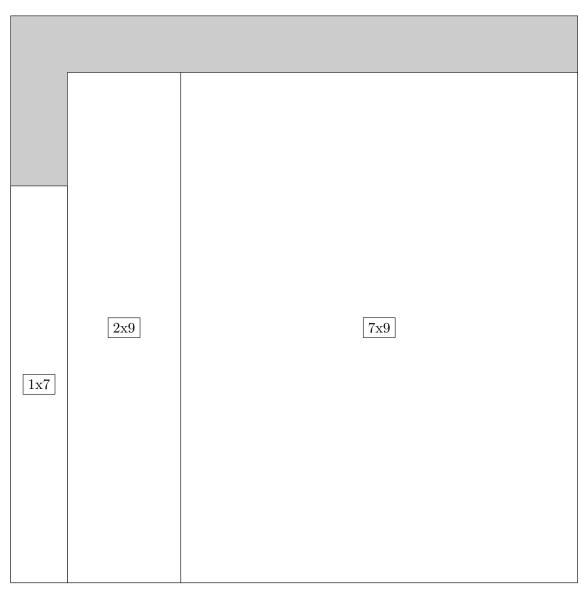
2x9	4x9	4x9

 $\begin{array}{l} w = 4 \ , \ h = 9 \ , \ x = 6 \ , \ y = 0 \ , \ v = 36 \\ w = 4 \ , \ h = 9 \ , \ x = 2 \ , \ y = 0 \ , \ v = 36 \end{array}$

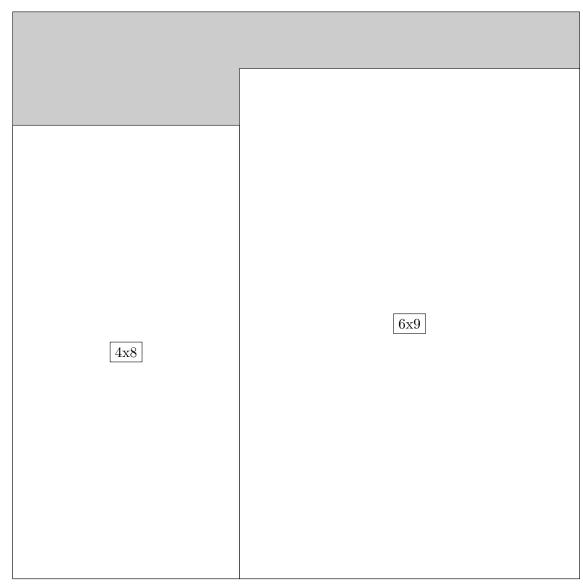
 \mathbf{w} =2 , h =9 , x =0 , y =0 , v =18

5x2		[5x2]		
3x8		7x8		

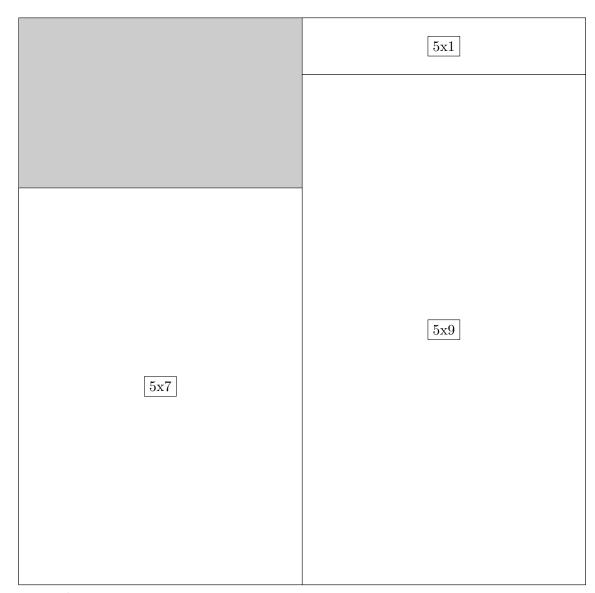
$$\begin{array}{l} w=7\ ,\, h=8\ ,\, x=3\ ,\, y=0\ ,\, v=56\\ w=3\ ,\, h=8\ ,\, x=0\ ,\, y=0\ ,\, v=24\\ w=5\ ,\, h=2\ ,\, x=5\ ,\, y=8\ ,\, v=10\\ w=5\ ,\, h=2\ ,\, x=0\ ,\, y=8\ ,\, v=10 \end{array}$$



 $\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 3 \ , \ y = 0 \ , \ v = 63 \\ w = 2 \ , \ h = 9 \ , \ x = 1 \ , \ y = 0 \ , \ v = 18 \\ w = 1 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 7 \end{array}$



w =6, h =9, x =4, y =0, v =54 w =4, h =8, x =0, y =0, v =32



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

 \mathbf{w} =5 , h =7 , x =0 , y =0 , v =35

	9x4
4x6	6x6

$$\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=4 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=24 \\ w=9 \ , \ h=4 \ , \ x=1 \ , \ y=6 \ , \ v=36 \end{array}$$

	[4x3]
5x7	5x7

 $\begin{array}{l} w = 5 \ , \ h = 7 \ , \ x = 5 \ , \ y = 0 \ , \ v = 35 \\ w = 4 \ , \ h = 3 \ , \ x = 6 \ , \ y = 7 \ , \ v = 12 \end{array}$

 \mathbf{w} =5 , h =7 , x =0 , y =0 , v =35

		1x2	3x2
5x8	5		
			4x8
6x5			

$$\mathbf{w}$$
 =4 , h =8 , x =6 , y =0 , v =32

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

$$\mathbf{w}$$
 =1 , h =2 , x =6 , y =8 , v =2

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

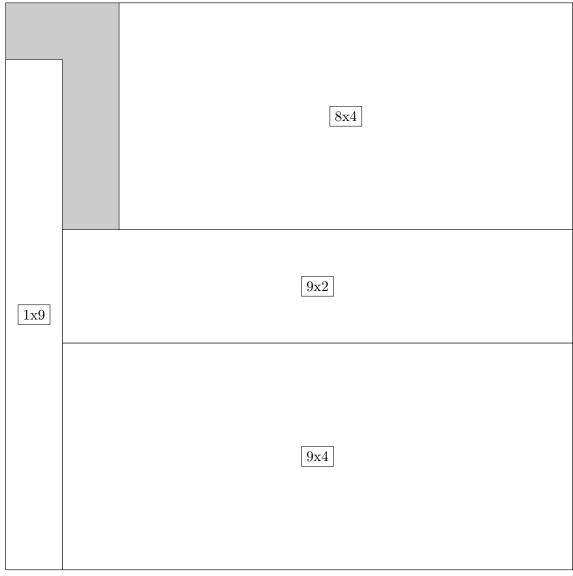
$$w=\!5$$
 , $h=\!\!5$, $x=\!\!1$, $y=\!\!5$, $v=\!\!25$

6x4	4x5
4x5	5x5

w =5, h =5, x =5, y =0, v =25 w =4, h =5, x =1, y =0, v =20

 $\le=4$, h =5 , x =6 , y =5 , v =20

 \mathbf{w} =6 , h =4 , x =0 , y =5 , v =24



$$\begin{array}{l} w=9\ ,\, h=4\ ,\, x=1\ ,\, y=0\ ,\, v=36\\ w=9\ ,\, h=2\ ,\, x=1\ ,\, y=4\ ,\, v=18\\ w=8\ ,\, h=4\ ,\, x=2\ ,\, y=6\ ,\, v=32\\ w=1\ ,\, h=9\ ,\, x=0\ ,\, y=0\ ,\, v=9 \end{array}$$

			$5\mathrm{x}4$
		1x2	5x2
2x6	2x6		6x4

 $\begin{array}{l} w=6\;,\; h=4\;,\; x=4\;,\; y=0\;,\; v=24\\ w=5\;,\; h=2\;,\; x=5\;,\; y=4\;,\; v=10\\ w=1\;,\; h=2\;,\; x=4\;,\; y=4\;,\; v=2\\ w=5\;,\; h=4\;,\; x=5\;,\; y=6\;,\; v=20\\ w=2\;,\; h=6\;,\; x=2\;,\; y=0\;,\; v=12\\ w=2\;,\; h=6\;,\; x=0\;,\; y=0\;,\; v=12 \end{array}$

2x5		2x5	2x5	1x6	1x6	2x6
1x4	4x4				5x4	

 $\begin{array}{l} w=5 \;,\, h=4 \;,\, x=5 \;,\, y=0 \;,\, v=20 \\ w=4 \;,\, h=4 \;,\, x=1 \;,\, y=0 \;,\, v=16 \\ w=1 \;,\, h=4 \;,\, x=0 \;,\, y=0 \;,\, v=4 \\ w=2 \;,\, h=6 \;,\, x=8 \;,\, y=4 \;,\, v=12 \\ w=1 \;,\, h=6 \;,\, x=7 \;,\, y=4 \;,\, v=6 \\ w=1 \;,\, h=6 \;,\, x=6 \;,\, y=4 \;,\, v=6 \\ w=2 \;,\, h=5 \;,\, x=4 \;,\, y=4 \;,\, v=10 \\ w=2 \;,\, h=5 \;,\, x=2 \;,\, y=4 \;,\, v=10 \\ w=2 \;,\, h=5 \;,\, x=0 \;,\, y=4 \;,\, v=10 \end{array}$