$ClassName: \ Class_01.2bp\text{-}46$

BinSize: $\underline{10} \times \underline{10}$ ReduceSize: $\underline{10} \times \underline{10}$

TypeNum: <u>63</u> Num: <u>100</u> OutS: <u>2800</u> InS: <u>2737</u> Rate: <u>0.978</u> UB: <u>28</u> LB0: <u>28</u> LB: <u>28</u>

LBWithCut: $\underline{28}$ NodeCut: $\underline{0}$

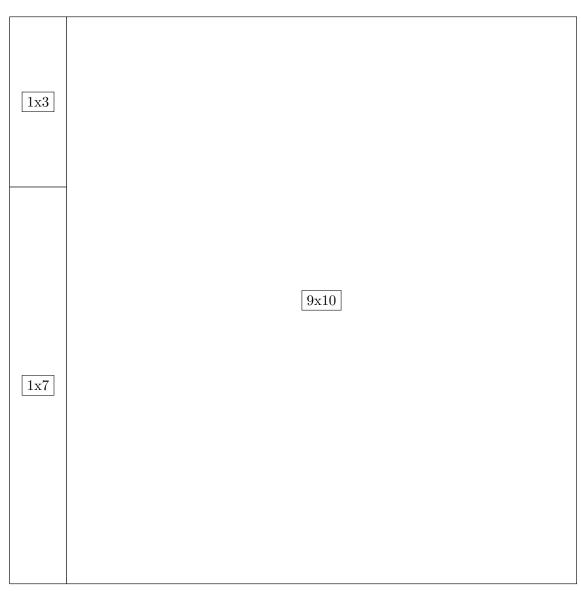
ExtendedNodeCnt: $\underline{\mathbf{1}}$

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{28}}$ 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: 600.344 s

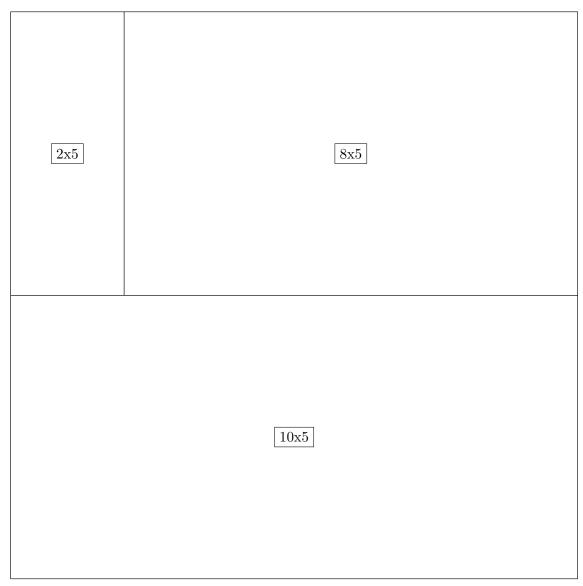


$$\begin{array}{l} w = 9 \ , \ h = \! 10 \ , \ x = \! 1 \ , \ y = \! 0 \ , \ v = \! 90 \\ w = \! 1 \ , \ h = \! 7 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 7 \end{array}$$

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

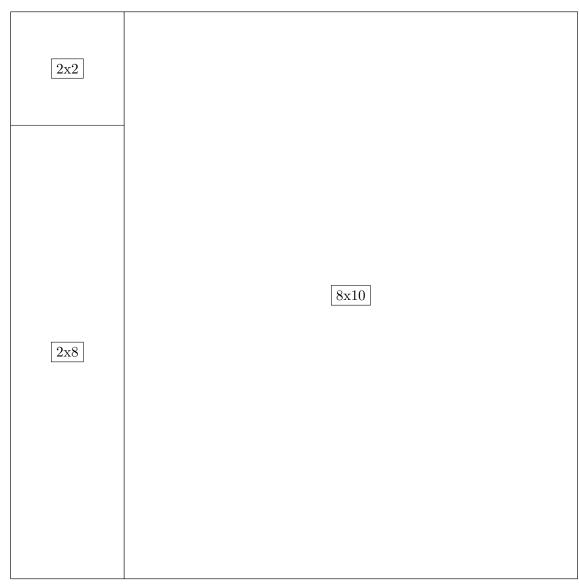
4x10	6x10

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



 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 8 \ , \ h = & 5 \ , \ x = & 2 \ , \ y = & 5 \ , \ v = & 40 \\ w = & 2 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 10 \end{array}$

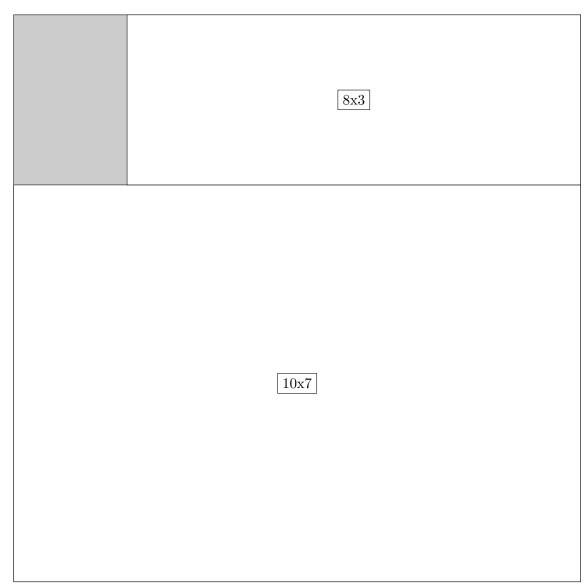




$$w=8$$
 , $h=\!10$, $x=\!2$, $y=\!0$, $v=\!80$

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

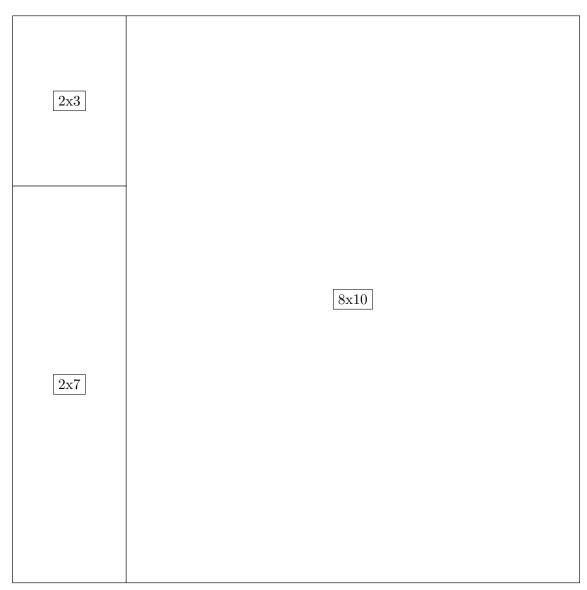
$$\mathbf{w}$$
 =2 , h =2 , x =0 , y =8 , v =4



 $\begin{array}{l} w = & 10 \ , \ h = & 7 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 70 \\ w = & 8 \ , \ h = & 3 \ , \ x = & 2 \ , \ y = & 7 \ , \ v = & 24 \end{array}$

1x2	1x2	8x2	
		$10\mathrm{x}8$	

$$\begin{array}{l} w = \! 10 \; , \; h = \! 8 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 80 \\ w = \! 8 \; , \; h = \! 2 \; , \; x = \! 2 \; , \; y = \! 8 \; , \; v = \! 16 \\ w = \! 1 \; , \; h = \! 2 \; , \; x = \! 1 \; , \; y = \! 8 \; , \; v = \! 2 \\ w = \! 1 \; , \; h = \! 2 \; , \; x = \! 0 \; , \; y = \! 8 \; , \; v = \! 2 \end{array}$$



$$w=8$$
 , $h=\!10$, $x=\!2$, $y=\!0$, $v=\!80$

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

$$\mathbf{w}$$
 =2 , h =3 , x =0 , y =7 , v =6

$5\mathrm{x}10$	$5\mathrm{x}10$

[5x3]	
5x6	5x9

 $\begin{array}{l} w = 5 \ , \ h = 9 \ , \ x = 5 \ , \ y = 0 \ , \ v = 45 \\ w = 5 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 3 \ , \ x = 0 \ , \ y = 6 \ , \ v = 15 \end{array}$

1x1	4x1	5x1
1x9		9x9

w = 9, h = 9, x = 1, y = 0, v = 81w = 5, h = 1, x = 5, y = 9, v = 5

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

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

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

	7x2
1x8	9x8

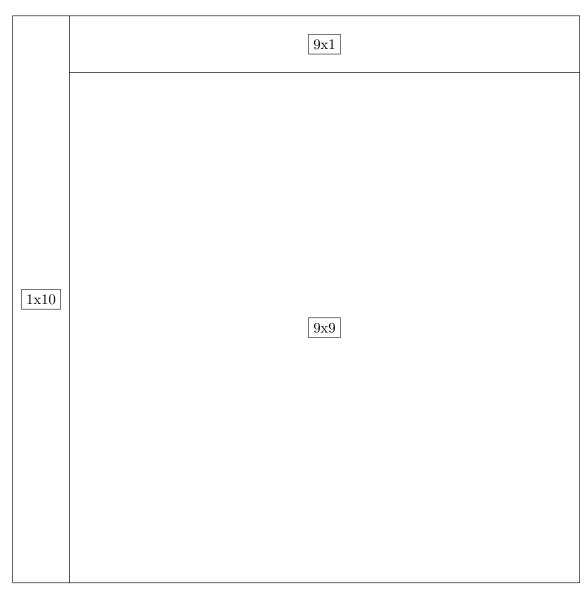
 $\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 1 \ , \ y = 0 \ , \ v = 72 \\ w = 1 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 8 \\ w = 7 \ , \ h = 2 \ , \ x = 3 \ , \ y = 8 \ , \ v = 14 \end{array}$

	[3x4]		6x4
1x10		9x6	

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

 \mathbf{w} =3 , h =4 , x =1 , y =6 , v =12

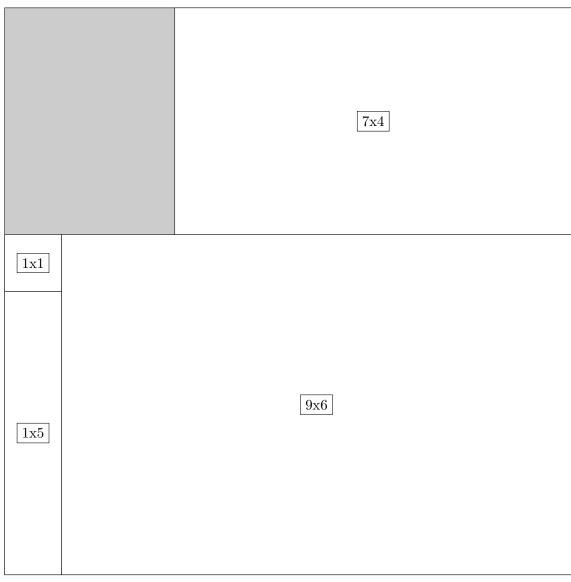
w = 1, h = 10, x = 0, y = 0, v = 10



 $\begin{array}{l} w = 9 \ , \ h = 9 \ , \ x = 1 \ , \ y = 0 \ , \ v = 81 \\ w = 9 \ , \ h = 1 \ , \ x = 1 \ , \ y = 9 \ , \ v = 9 \\ w = 1 \ , \ h = 10 \ , \ x = 0 \ , \ y = 0 \ , \ v = 10 \end{array}$

	10x3				
1x3	3x3				
	4x4	6x7			

$$\begin{array}{l} w=6 \;,\; h=7 \;,\; x=4 \;,\; y=0 \;,\; v=42 \\ w=4 \;,\; h=4 \;,\; x=0 \;,\; y=0 \;,\; v=16 \\ w=3 \;,\; h=3 \;,\; x=1 \;,\; y=4 \;,\; v=9 \\ w=1 \;,\; h=3 \;,\; x=0 \;,\; y=4 \;,\; v=3 \\ w=10 \;,\; h=3 \;,\; x=0 \;,\; y=7 \;,\; v=30 \end{array}$$

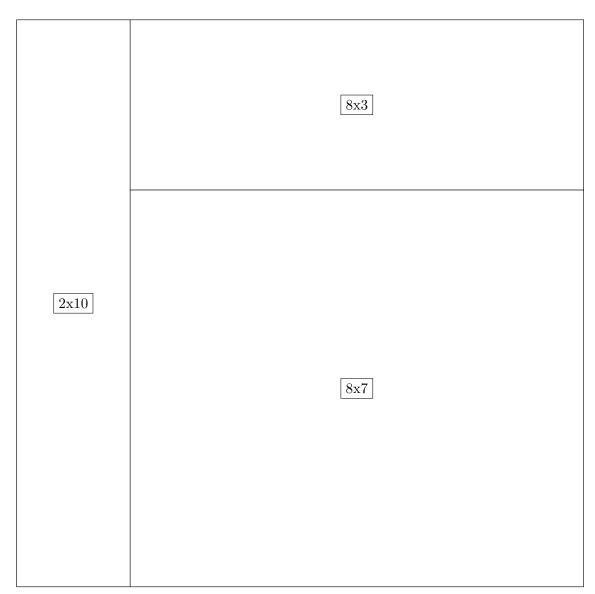


$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 1 \ , \ y = 0 \ , \ v = 54 \\ w = 1 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 5 \\ w = 1 \ , \ h = 1 \ , \ x = 0 \ , \ y = 5 \ , \ v = 1 \\ w = 7 \ , \ h = 4 \ , \ x = 3 \ , \ y = 6 \ , \ v = 28 \end{array}$$

3x6	6x6
[4x4]	6x4

 $\begin{array}{l} w=6 \ , \, h=4 \ , \, x=4 \ , \, y=0 \ , \, v=24 \\ w=4 \ , \, h=4 \ , \, x=0 \ , \, y=0 \ , \, v=16 \\ w=6 \ , \, h=6 \ , \, x=4 \ , \, y=4 \ , \, v=36 \end{array}$

 \mathbf{w} =3 , h =6 , x =1 , y =4 , v =18



$$\begin{array}{l} w = 8 \ , \ h = 7 \ , \ x = 2 \ , \ y = 0 \ , \ v = 56 \\ w = 8 \ , \ h = 3 \ , \ x = 2 \ , \ y = 7 \ , \ v = 24 \\ w = 2 \ , \ h = 10 \ , \ x = 0 \ , \ y = 0 \ , \ v = 20 \end{array}$$

5x4	5x4
4x1	
4x5	6x6

$$\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=4 \ , \ h=5 \ , \ x=0 \ , \ y=0 \ , \ v=20 \\ w=4 \ , \ h=1 \ , \ x=0 \ , \ y=5 \ , \ v=4 \\ w=5 \ , \ h=4 \ , \ x=5 \ , \ y=6 \ , \ v=20 \\ w=5 \ , \ h=4 \ , \ x=0 \ , \ y=6 \ , \ v=20 \end{array}$$

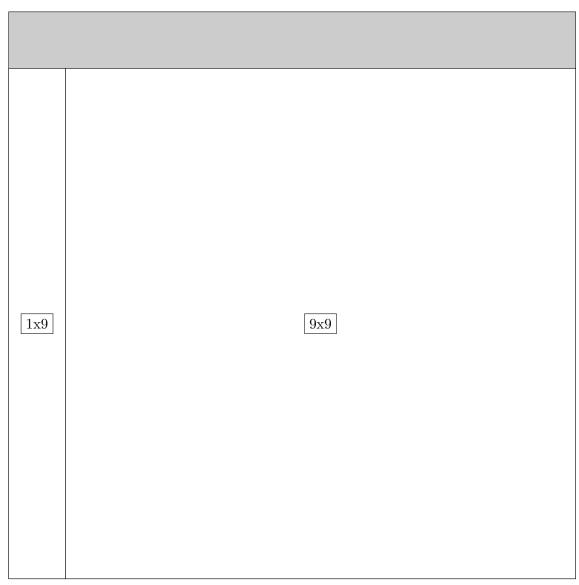
	3x1	6x1
1x9		9x9

w = 9, h = 9, x = 1, y = 0, v = 81

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

 ≤ 3 , h =1 , x =1 , y =9 , v =3

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



w =9, h =9, x =1, y =0, v =81 w =1, h =9, x =0, y =0, v =9

2x5	2x6		6x6
2x4	2x4	2x4	4x4

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

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

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

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

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

w = 2, h = 6, x = 2, y = 4, v = 12

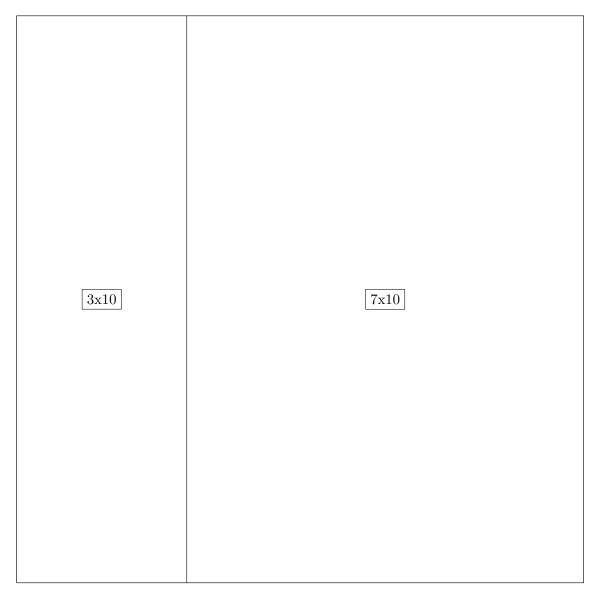
w=2 , h=5 , x=0 , y=4 , v=10

1x5	9x5
3x5	7x5

$$\begin{array}{c} w = 7 \;, \; h = 5 \;, \; x = 3 \;, \; y = 0 \;, \; v = 35 \\ w = 3 \;, \; h = 5 \;, \; x = 0 \;, \; y = 0 \;, \; v = 15 \\ w = 9 \;, \; h = 5 \;, \; x = 1 \;, \; y = 5 \;, \; v = 45 \\ w = 1 \;, \; h = 5 \;, \; x = 0 \;, \; y = 5 \;, \; v = 5 \end{array}$$

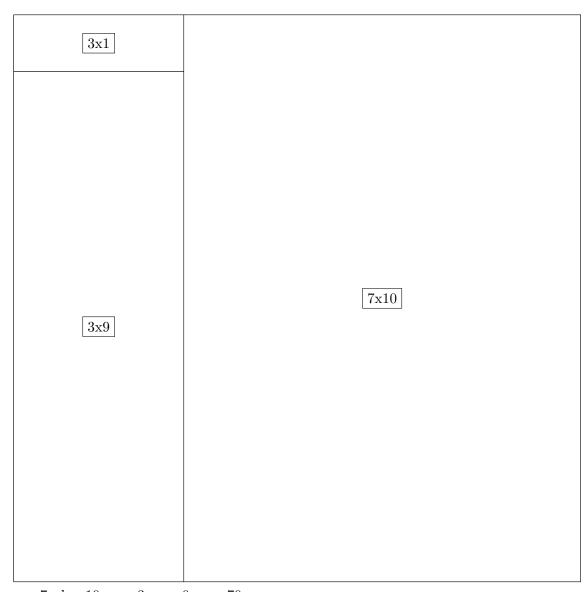
	[5x2]		2
1x1	2x1		
1x7	2x7	3x8	4x8

$$\begin{array}{l} w=4 \;,\; h=8 \;,\; x=6 \;,\; y=0 \;,\; v=32 \\ w=3 \;,\; h=8 \;,\; x=3 \;,\; y=0 \;,\; v=24 \\ w=2 \;,\; h=7 \;,\; x=1 \;,\; y=0 \;,\; v=14 \\ w=2 \;,\; h=1 \;,\; x=1 \;,\; y=7 \;,\; v=2 \\ w=1 \;,\; h=7 \;,\; x=0 \;,\; y=0 \;,\; v=7 \\ w=1 \;,\; h=1 \;,\; x=0 \;,\; y=7 \;,\; v=1 \\ w=5 \;,\; h=2 \;,\; x=5 \;,\; y=8 \;,\; v=10 \\ w=5 \;,\; h=2 \;,\; x=0 \;,\; y=8 \;,\; v=10 \end{array}$$



3x9	3x9	4x9

 $\begin{array}{l} w = 4 \ , \ h = 9 \ , \ x = 6 \ , \ y = 0 \ , \ v = 36 \\ w = 3 \ , \ h = 9 \ , \ x = 3 \ , \ y = 0 \ , \ v = 27 \\ w = 3 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 27 \end{array}$



$$\begin{array}{l} w = 7 \ , \ h = \! 10 \ , \ x = \! 3 \ , \ y = \! 0 \ , \ v = \! 70 \\ w = \! 3 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 27 \\ w = \! 3 \ , \ h = \! 1 \ , \ x = \! 0 \ , \ y = \! 9 \ , \ v = \! 3 \end{array}$$

5x2	[5x2]
4x8	6x8

 $\begin{array}{l} w=6\ ,\, h=8\ ,\, x=4\ ,\, y=0\ ,\, v=48\\ w=4\ ,\, h=8\ ,\, x=0\ ,\, y=0\ ,\, v=32\\ w=5\ ,\, h=2\ ,\, x=5\ ,\, y=8\ ,\, v=10\\ w=5\ ,\, h=2\ ,\, x=0\ ,\, y=8\ ,\, v=10 \end{array}$