$ClassName: \ Class_01.2bp\text{-}42$

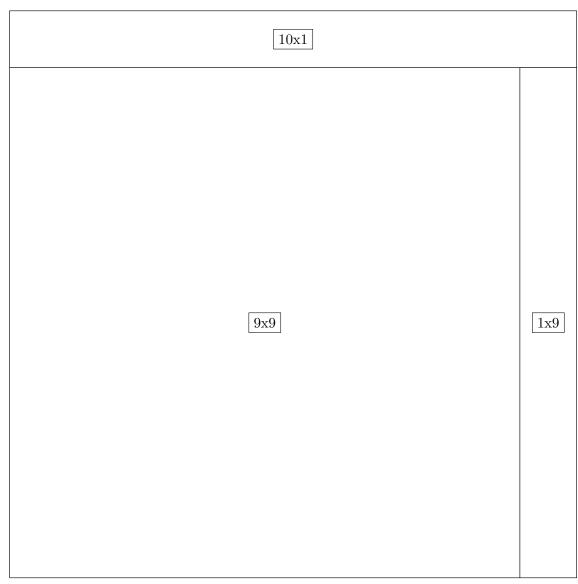
 $\begin{array}{ll} \text{BinSize: } \underline{\mathbf{10} \times \mathbf{10}} \\ \text{ReduceSize: } \underline{\mathbf{10} \times \mathbf{10}} \end{array}$

TypeNum: <u>60</u>
Num: <u>100</u>
OutS: <u>2900</u>
InS: <u>2668</u>
Rate: <u>0.920</u>
UB: <u>29</u>
LB0: <u>29</u>
LB: <u>29</u>

LBWithCut: $\underline{\mathbf{29}}$ NodeCut: $\underline{\mathbf{0}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{29}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.062 sTotalTime: 0.111 s



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



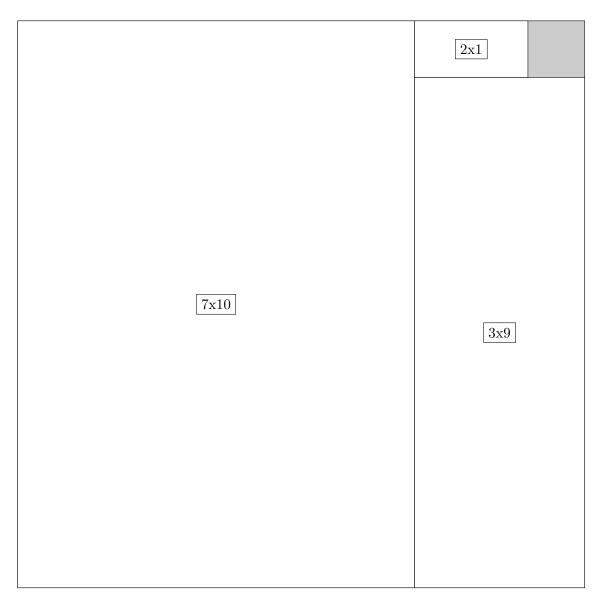




9x1	
10x1	
9x8	1x8

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





$$\mathbf{w}$$
 =7 , \mathbf{h} =10 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =70

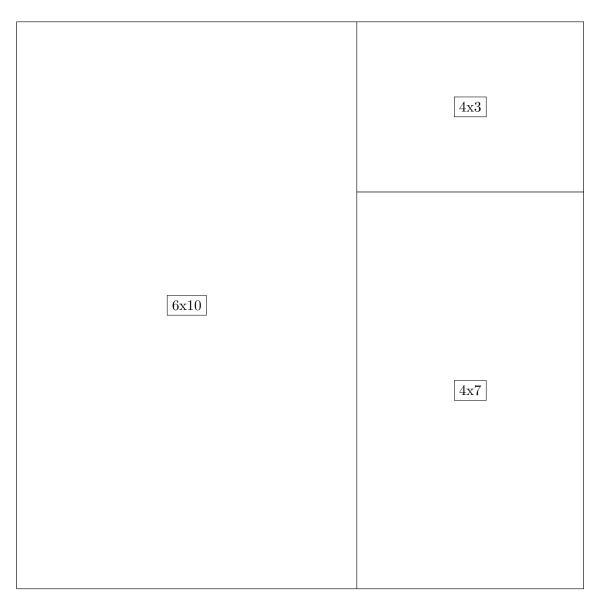
$$\mathbf{w}$$
 =3 , h =9 , x =7 , y =0 , v =27

$$w = 2$$
 , $h = 1$, $x = 7$, $y = 9$, $v = 2$

[5x2]	5x2
8x8	2x8

 $\begin{array}{l} w = 8 \;, \; h = 8 \;, \; x = 0 \;, \; y = 0 \;, \; v = 64 \\ w = 2 \;, \; h = 8 \;, \; x = 8 \;, \; y = 0 \;, \; v = 16 \\ w = 5 \;, \; h = 2 \;, \; x = 5 \;, \; y = 8 \;, \; v = 10 \end{array}$

 \mathbf{w} =5 , h =2 , x =0 , y =8 , v = 10



$$\mathbf{w}$$
 =6 , h =10 , x =0 , y =0 , v =60

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

$$\mathbf{w}$$
 =4 , h =3 , x =6 , y =7 , v =12

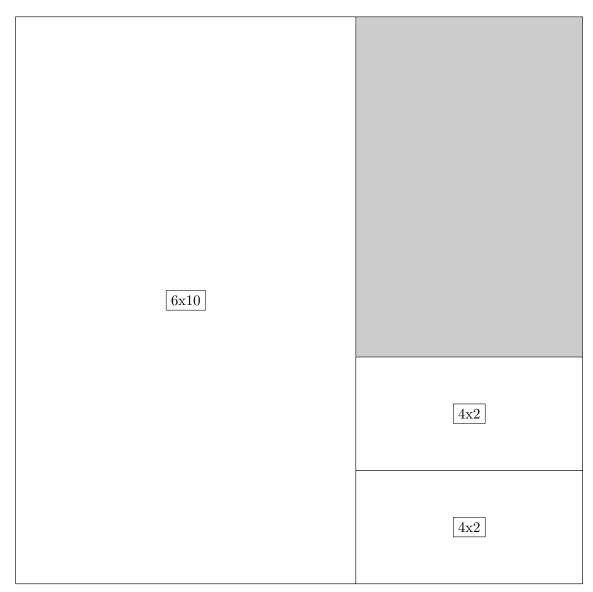
6x10		[3x3]	1x3
	$\boxed{6\mathrm{x}10}$		
4x7		[4x7]	

$$\mathbf{w}$$
 =6 , h =10 , x =0 , y =0 , v =60

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

$$\le 3$$
 , h =
3 , x =
6 , y =
7 , v =
9

$$\mathbf{w}$$
 =1 , h =3 , x =9 , y =7 , v =3



 $\begin{array}{l} w = 6 \ , \ h = \! 10 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 60 \\ w = \! 4 \ , \ h = \! 2 \ , \ x = \! 6 \ , \ y = \! 0 \ , \ v = \! 8 \end{array}$

 \mathbf{w} =4 , h =2 , x =6 , y =2 , v =8

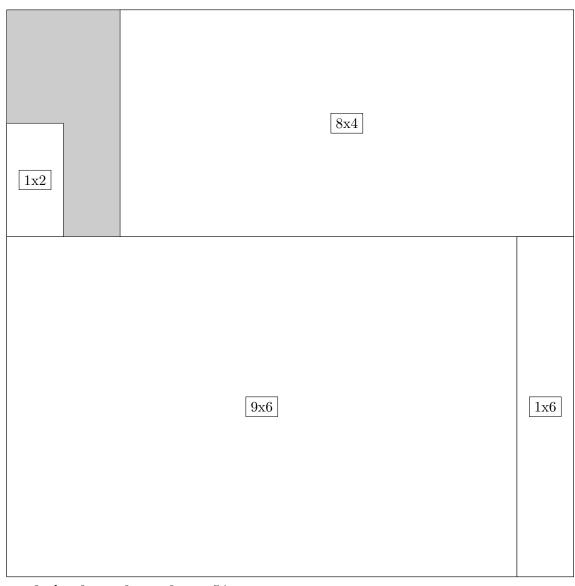
	2x1
8x3	
	2x9
8x7	

$$w = 8$$
, $h = 7$, $x = 0$, $y = 0$, $v = 56$

$$\mathbf{w}$$
 =8 , h =3 , x =0 , y =7 , v =24

$$\mathbf{w}$$
 =2 , h =9 , x =8 , y =0 , v =18

$$\mathbf{w}$$
 =2 , h =1 , x =8 , y =9 , v =2



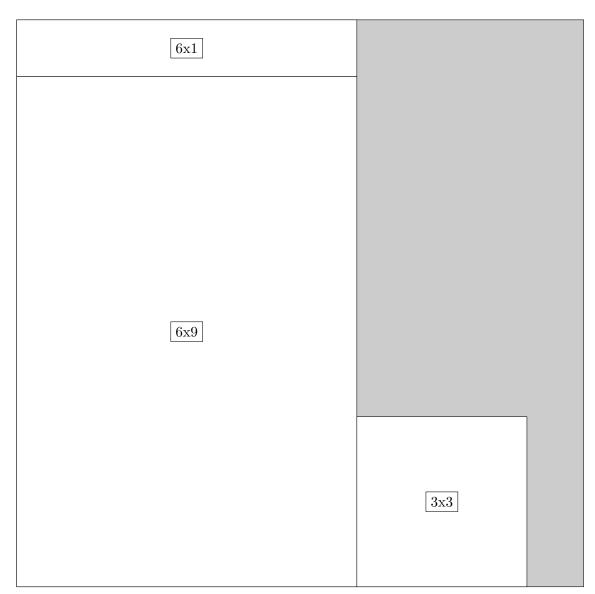
$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 8 \ , \ h = 4 \ , \ x = 2 \ , \ y = 6 \ , \ v = 32 \\ w = 1 \ , \ h = 6 \ , \ x = 9 \ , \ y = 0 \ , \ v = 6 \\ w = 1 \ , \ h = 2 \ , \ x = 0 \ , \ y = 6 \ , \ v = 2 \end{array}$$

4x4	6x4	
		1x2
	9x6	1x4

$$\begin{array}{l} w=9\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=54\\ w=6\ ,\, h=4\ ,\, x=4\ ,\, y=6\ ,\, v=24\\ w=4\ ,\, h=4\ ,\, x=0\ ,\, y=6\ ,\, v=16\\ w=1\ ,\, h=4\ ,\, x=9\ ,\, y=0\ ,\, v=4\\ w=1\ ,\, h=2\ ,\, x=9\ ,\, y=4\ ,\, v=2 \end{array}$$



 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 4 \ , \ h = 9 \ , \ x = 6 \ , \ y = 0 \ , \ v = 36 \\ w = 10 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 10 \end{array}$



$$\mathbf{w}$$
 =6 , \mathbf{h} =9 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =54

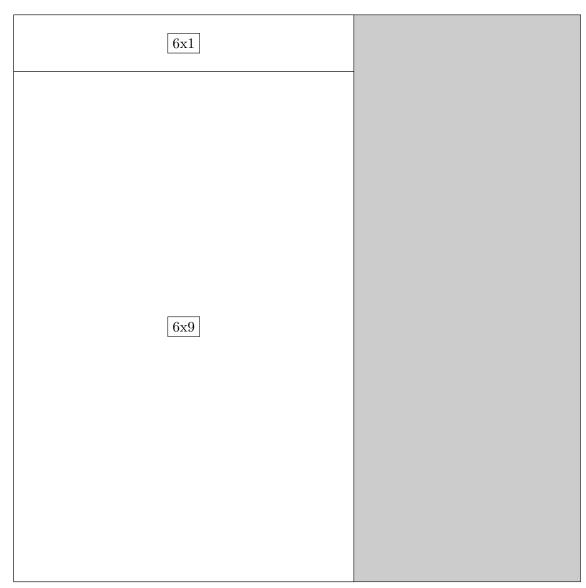
$$\begin{array}{c} w = 3 \; , \; h = 3 \; , \; x = 6 \; , \; y = 0 \; , \; v = 9 \\ w = 6 \; , \; h = 1 \; , \; x = 0 \; , \; y = 9 \; , \; v = 6 \\ \end{array}$$

$$w = 6$$
, $h = 1$, $x = 0$, $y = 9$, $v = 6$

6x1		
6x9	2x9	

 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 2 \ , \ h = 9 \ , \ x = 6 \ , \ y = 0 \ , \ v = 18 \end{array}$

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



8x1 8x1	1x2	1x2
7x1 7x1		
7x6	3x8	

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

$$\mathbf{w}$$
 =8 , h =1 , x =0 , y =9 , v =8

$$\mathbf{w}$$
 =7 , h =1 , x =0 , y =6 , v =7

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

$$\mathbf{w}$$
 =1 , h =2 , x =9 , y =8 , v =2

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

 $[\]le =3$, h = 8 , x = 7 , y = 0 , v = 24

w = 8, h = 1, x = 0, y = 8, v = 8

	6x4	
6x6	4x6	

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

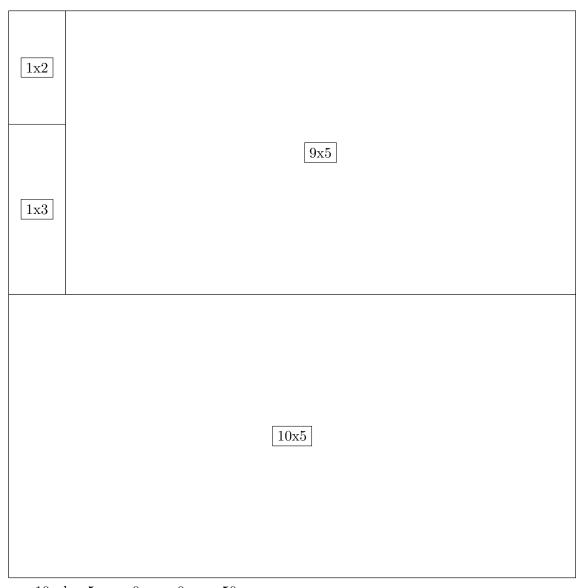
7x7 3x5	7x3	3x5
	7x7	3x5

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

$$\mathbf{w}$$
 =7 , h =7 , x =0 , y =0 , v =49

$$\mathbf{w}$$
 =3 , h =5 , x =7 , y =0 , v =
15

$$\mathbf{w}$$
 =3 , h =5 , x =7 , y =5 , v =
15



$$\begin{array}{l} w = \! 10 \; , \; h = \! 5 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 50 \\ w = \! 9 \; , \; h = \! 5 \; , \; x = \! 1 \; , \; y = \! 5 \; , \; v = \! 45 \\ w = \! 1 \; , \; h = \! 3 \; , \; x = \! 0 \; , \; y = \! 5 \; , \; v = \! 3 \\ w = \! 1 \; , \; h = \! 2 \; , \; x = \! 0 \; , \; y = \! 8 \; , \; v = \! 2 \end{array}$$

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

1x2				
1x3	3x5		6x5	
	8x	:5	2x5	

$$\begin{array}{l} w=8 \;,\, h=5 \;,\, x=0 \;,\, y=0 \;,\, v=40 \\ w=6 \;,\, h=5 \;,\, x=4 \;,\, y=5 \;,\, v=30 \\ w=3 \;,\, h=5 \;,\, x=1 \;,\, y=5 \;,\, v=15 \\ w=2 \;,\, h=5 \;,\, x=8 \;,\, y=0 \;,\, v=10 \\ w=1 \;,\, h=3 \;,\, x=0 \;,\, y=5 \;,\, v=3 \\ w=1 \;,\, h=2 \;,\, x=0 \;,\, y=8 \;,\, v=2 \end{array}$$

5x8	5x8

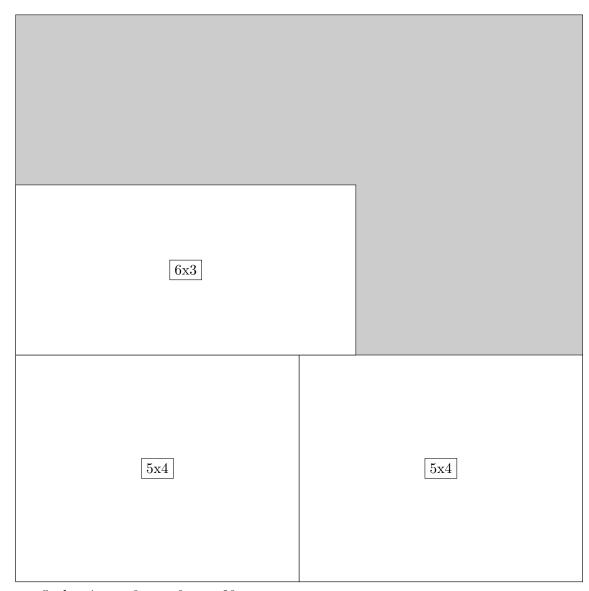
 $\begin{array}{l} w = 5 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = \!\! 40 \\ w = \!\! 5 \ , \, h = \!\! 8 \ , \, x = \!\! 5 \ , \, y = \!\! 0 \ , \, v = \!\! 40 \end{array}$

5x3	5x4
5x7	5x6
	3x0

 $\begin{array}{l} w = 5 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 35 \\ w = 5 \ , \ h = 6 \ , \ x = 5 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 4 \ , \ x = 5 \ , \ y = 6 \ , \ v = 20 \\ w = 5 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 15 \end{array}$

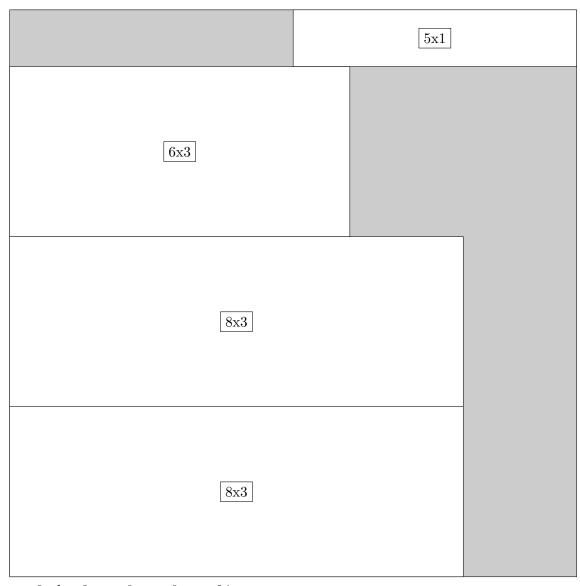
5x4	5x5
5x6	5x5

 $\begin{array}{l} w = 5 \ , \, h = 6 \ , \, x = 0 \ , \, y = 0 \ , \, v = 30 \\ w = 5 \ , \, h = 5 \ , \, x = 5 \ , \, y = 0 \ , \, v = 25 \\ w = 5 \ , \, h = 5 \ , \, x = 5 \ , \, y = 5 \ , \, v = 25 \\ w = 5 \ , \, h = 4 \ , \, x = 0 \ , \, y = 6 \ , \, v = 20 \end{array}$



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

 \mathbf{w} =6 , h =3 , x =0 , y =4 , v =18



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

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