${\bf ClassName:}~{\bf Class_01.2bp\text{-}32}$

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

TypeNum: <u>58</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2298</u> Rate: <u>0.851</u> UB: <u>27</u> LB0: <u>27</u>

LBWithCut: $\underline{27}$ NodeCut: $\underline{0}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{27}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.094 \ s} \\ {\rm TotalTime:} \ \underline{0.172 \ s} \\ \end{array}$



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



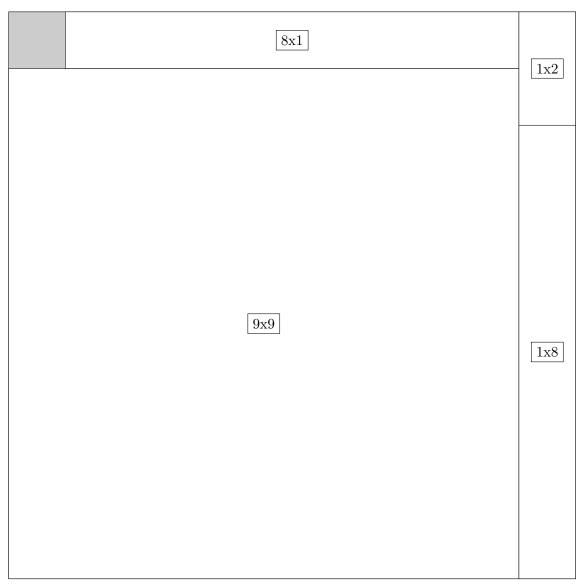
2x1	8x1	
	9x9	1x9

$$\mathbf{w}$$
 =9 , h =9 , x =0 , y =0 , v =81

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

$$w = 8$$
, $h = 1$, $x = 2$, $y = 9$, $v = 8$

$$\mathbf{w}$$
 =2 , h =1 , x =0 , y =9 , v =2



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

$$w = 8$$
, $h = 1$, $x = 1$, $y = 9$, $v = 8$

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

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



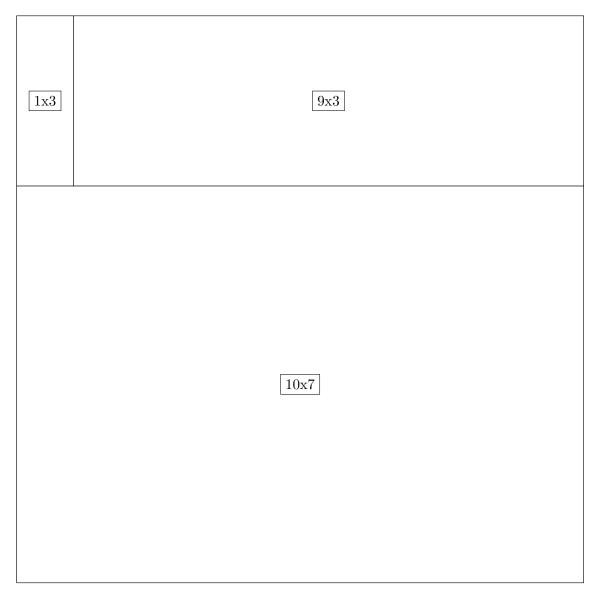
2x1	8x1	
	8x9	2x9

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

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

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

$$\mathbf{w}$$
 =2 , h =1 , x =0 , y =9 , v =2



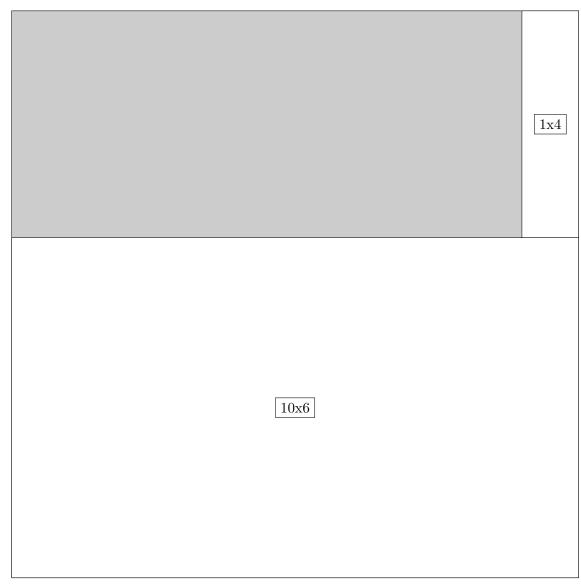
$$\begin{array}{l} w = \! 10 \ , \ h = \! 7 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 70 \\ w = \! 9 \ , \ h = \! 3 \ , \ x = \! 1 \ , \ y = \! 7 \ , \ v = \! 27 \\ w = \! 1 \ , \ h = \! 3 \ , \ x = \! 0 \ , \ y = \! 7 \ , \ v = \! 3 \end{array}$$

3x4	$7\mathrm{x}4$
	$10\mathrm{x}6$

$$\begin{array}{l} w = & 10 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 60 \\ w = & 7 \ , \ h = & 4 \ , \ x = & 3 \ , \ y = & 6 \ , \ v = & 28 \\ w = & 3 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 6 \ , \ v = & 12 \end{array}$$

1x4	4x4		5x4	
		10x6		

$$\begin{array}{l} w = 10 \; , \; h = 6 \; , \; x = 0 \; , \; y = 0 \; , \; v = 60 \\ w = 5 \; , \; h = 4 \; , \; x = 5 \; , \; y = 6 \; , \; v = 20 \\ w = 4 \; , \; h = 4 \; , \; x = 1 \; , \; y = 6 \; , \; v = 16 \\ w = 1 \; , \; h = 4 \; , \; x = 0 \; , \; y = 6 \; , \; v = 4 \end{array}$$



w =10, h =6, x =0, y =0, v =60 w =1, h =4, x =9, y =6, v =4

2x3		8x3	
	8x7		2x7

$$\le =8$$
 , h =7 , x =0 , y =0 , v =
56

$$\mathbf{w}$$
 =8 , h =3 , x =2 , y =7 , v =24

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

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

2x1 4x1	3x2	
7x8		3x10

$$\le =7$$
 , h =8 , x =0 , y =0 , v =
56

$$\le =3$$
 , h =2 , x =4 , y =8 , v =6

$$\mathbf{w}$$
 =3 , h =10 , x =7 , y =0 , v =30

$$\mathbf{w}=\!\!4$$
 , $\mathbf{h}=\!\!1$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!8$, $\mathbf{v}=\!\!4$

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

7v1	
7x1 9x6	1x6

$$w = 9$$
, $h = 6$, $x = 0$, $y = 0$, $v = 54$

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

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

1x3	1x3	2x3	62	x3
		7x7		3x7

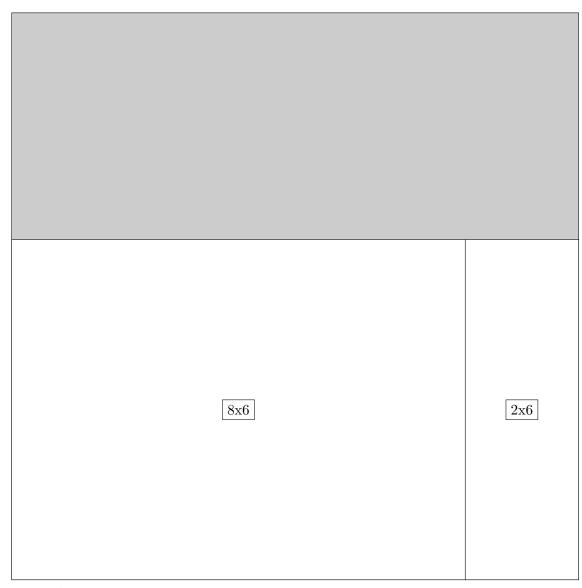
$$\mathbf{w}$$
 =7 , \mathbf{h} =7 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =49

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

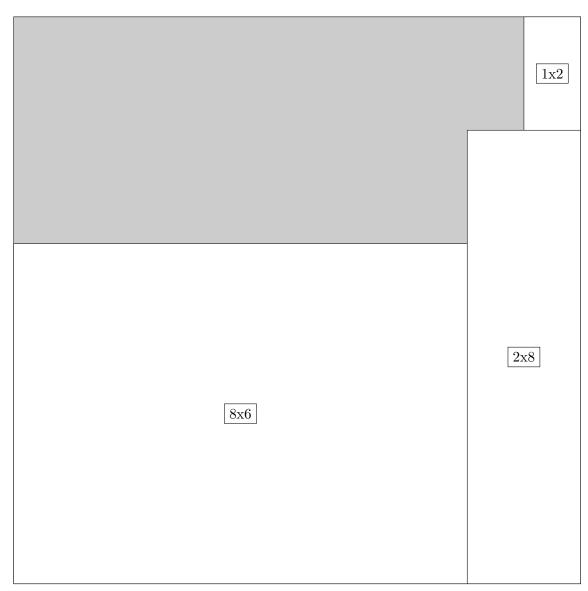
$$\mathbf{w}$$
 =6 , h =3 , x =4 , y =7 , v =18

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

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



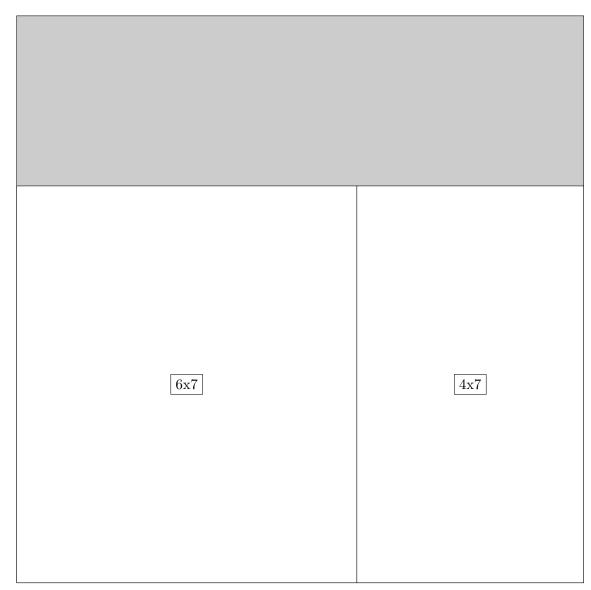
w =8, h =6, x =0, y =0, v =48 w =2, h =6, x =8, y =0, v =12



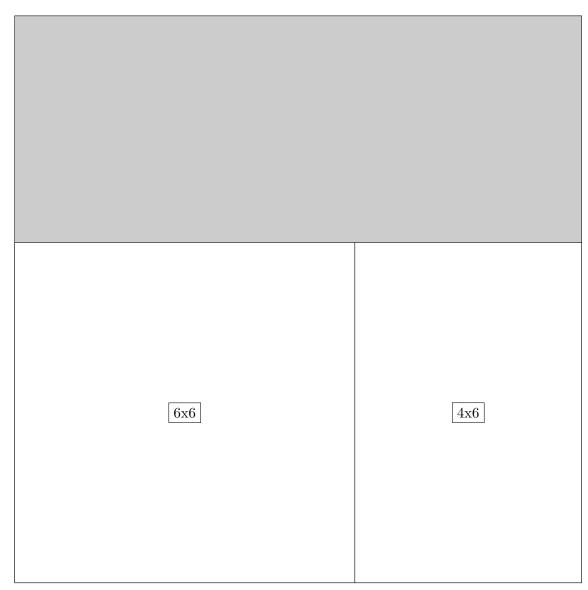
 $\begin{array}{l} w = 8 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 48 \\ w = 2 \ , \ h = 8 \ , \ x = 8 \ , \ y = 0 \ , \ v = 16 \\ w = 1 \ , \ h = 2 \ , \ x = 9 \ , \ y = 8 \ , \ v = 2 \end{array}$

6x8	3x8	1x8

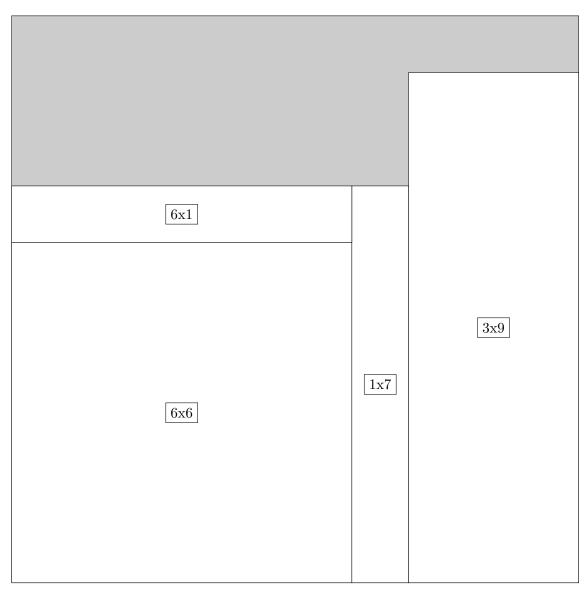
 $\begin{array}{l} w=6 \ , \ h=8 \ , \ x=0 \ , \ y=0 \ , \ v=48 \\ w=3 \ , \ h=8 \ , \ x=6 \ , \ y=0 \ , \ v=24 \\ w=1 \ , \ h=8 \ , \ x=9 \ , \ y=0 \ , \ v=8 \end{array}$



w =6, h =7, x =0, y =0, v =42 w =4, h =7, x =6, y =0, v =28



w =6, h =6, x =0, y =0, v =36 w =4, h =6, x =6, y =0, v =24

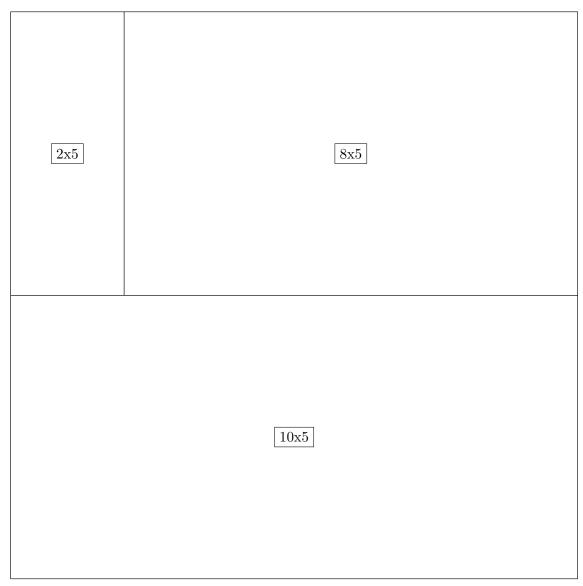


$$w=6$$
 , $h=6$, $x=0$, $y=0$, $v=36$

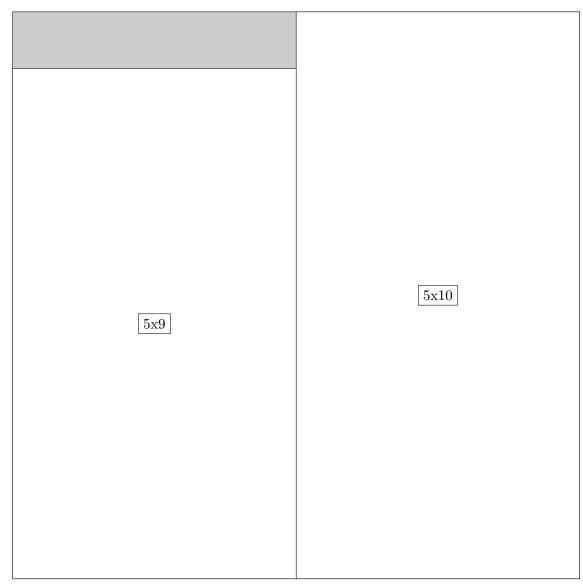
$$\le =3$$
 , h =9 , x =7 , y =0 , v =
27

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

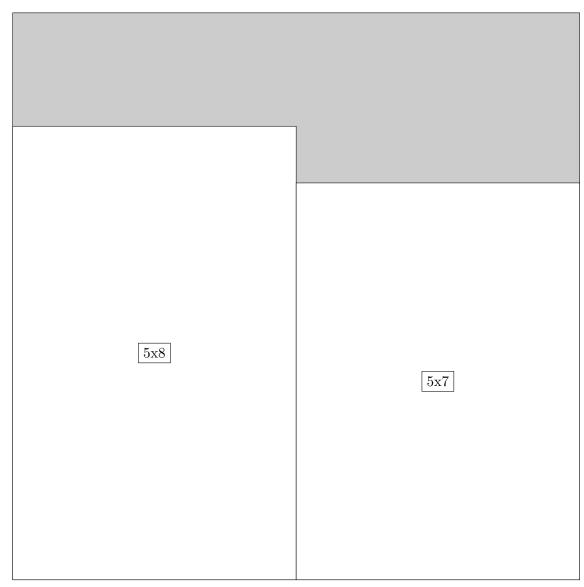
$$\mathbf{w}$$
 =6 , h =1 , x =0 , y =6 , v =6

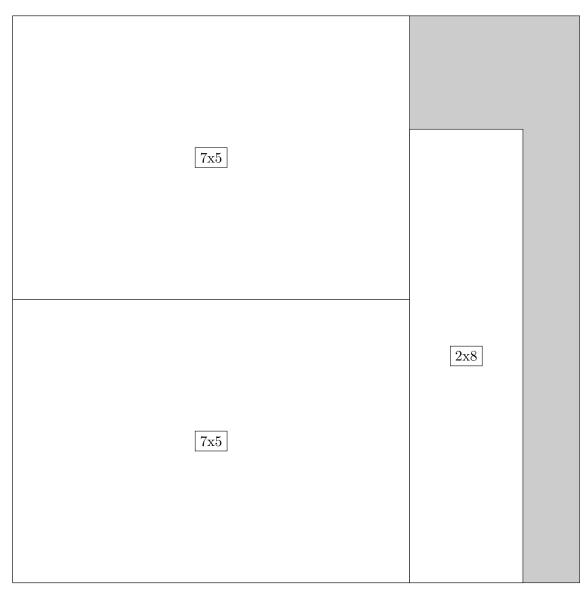


 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 8 \ , \ h = & 5 \ , \ x = & 2 \ , \ y = & 5 \ , \ v = & 40 \\ w = & 2 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 10 \end{array}$



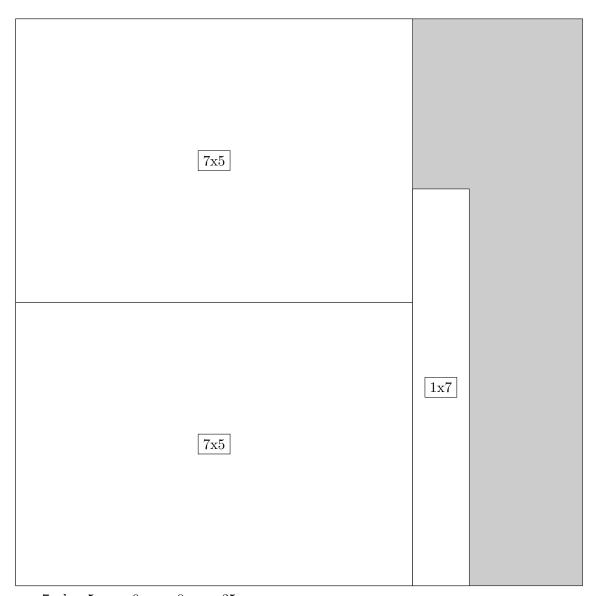
w =5, h =10, x =5, y =0, v =50 w =5, h =9, x =0, y =0, v =45



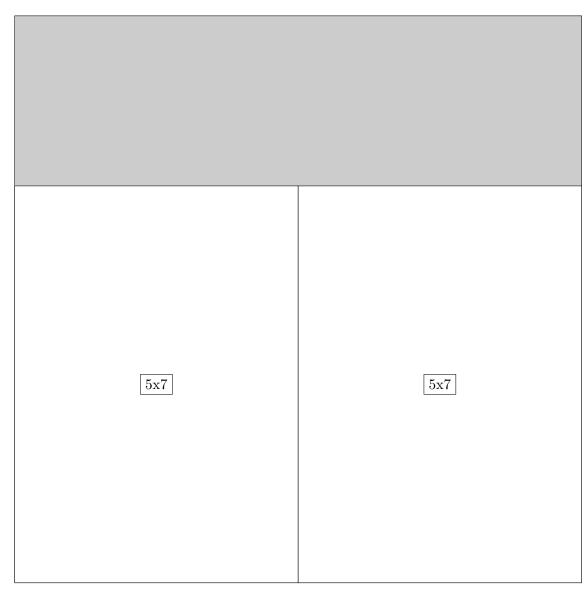


 \mathbf{w} =7 , h =5 , x =0 , y =0 , v =35

 $\begin{array}{c} w = 7 \;, \; h = 5 \;, \; x = 0 \;, \; y = 5 \;, \; v = 35 \\ w = 2 \;, \; h = 8 \;, \; x = 7 \;, \; y = 0 \;, \; v = 16 \\ \end{array}$



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



w =5 , h =7 , x =0 , y =0 , v =35 w =5 , h =7 , x =5 , y =0 , v =35

