$ClassName: \ Class_01.2bp-24$

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

TypeNum: <u>42</u> Num: <u>60</u> OutS: <u>1900</u> InS: <u>1649</u> Rate: <u>0.868</u> UB: <u>19</u> LB0: <u>19</u> LB: <u>19</u>

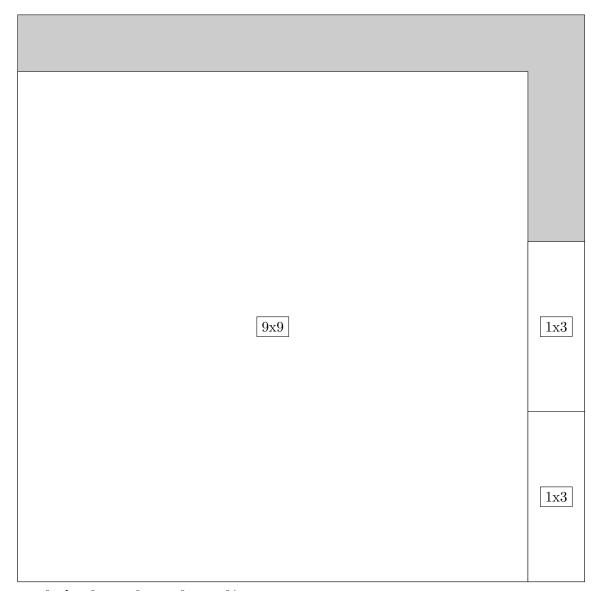
LBWithCut: $\underline{\mathbf{19}}$ NodeCut: $\underline{\mathbf{0}}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{19}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.078 \ s} \\ {\rm TotalTime:} \ \underline{0.125 \ s} \\ \end{array}$



$$\begin{array}{l} w = 9 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 81 \\ w = 1 \ , \ h = 3 \ , \ x = 9 \ , \ y = 0 \ , \ v = 3 \end{array}$$

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



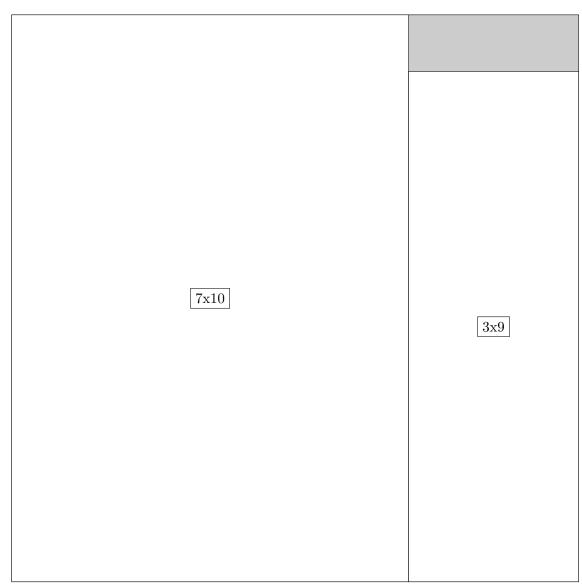
5x2		
O.Z.	5x1	
9x8		
		1x6

$$w = 9$$
, $h = 8$, $x = 0$, $y = 0$, $v = 72$

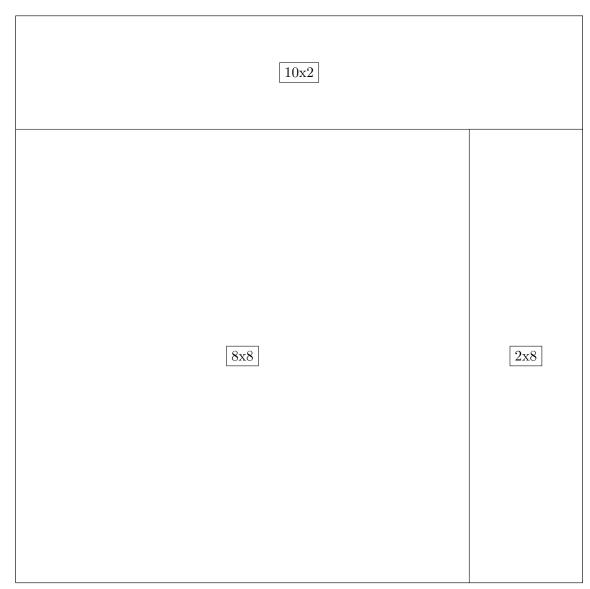
$$w = 5$$
, $h = 2$, $x = 0$, $y = 8$, $v = 10$

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

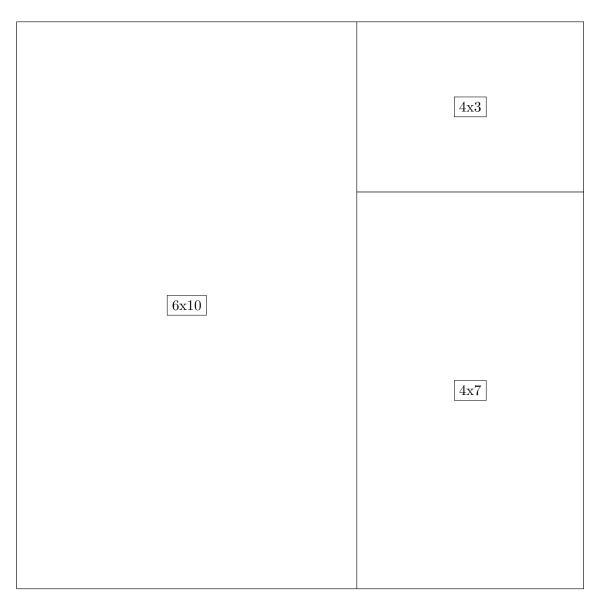
$$\mathbf{w}$$
 =5 , h =1 , x =5 , y =8 , v =5



w = 7, h = 10, x = 0, y = 0, v = 70 w = 3, h = 9, x = 7, y = 0, v = 27



 $\begin{array}{l} w = 8 \;,\; h = 8 \;,\; x = 0 \;,\; y = 0 \;,\; v = 64 \\ w = 10 \;,\; h = 2 \;,\; x = 0 \;,\; y = 8 \;,\; v = 20 \\ w = 2 \;,\; h = 8 \;,\; x = 8 \;,\; y = 0 \;,\; v = 16 \end{array}$



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

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

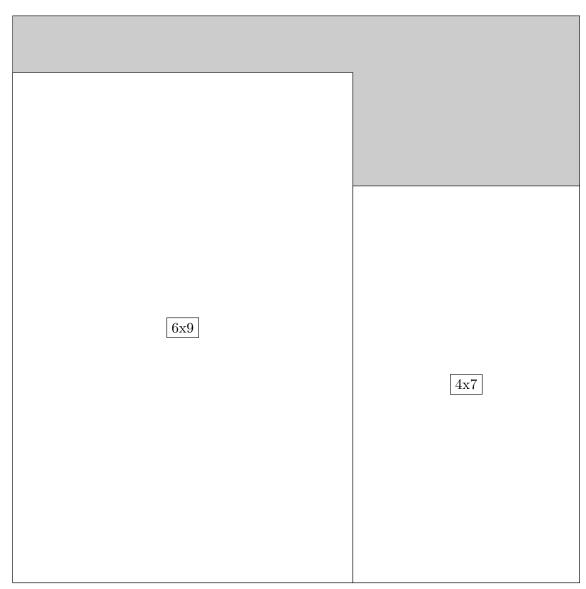
$$\mathbf{w}$$
 =4 , h =3 , x =6 , y =7 , v =12

	8x4	
9x6		1x2
		1x2

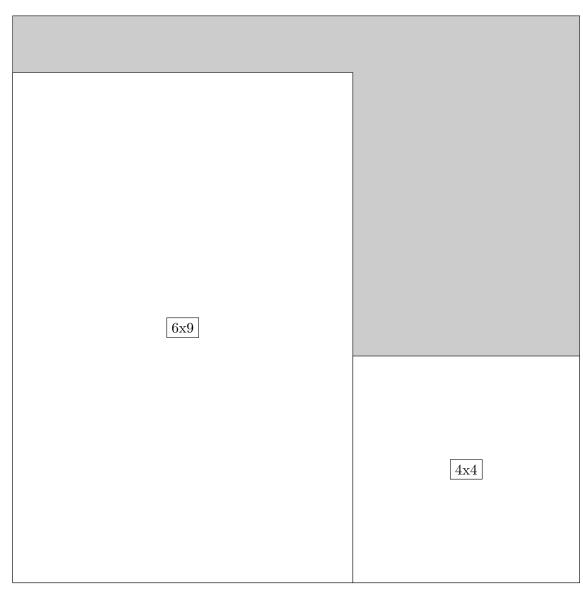
$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 8 \ , \ h = 4 \ , \ x = 2 \ , \ y = 6 \ , \ v = 32 \\ w = 1 \ , \ h = 2 \ , \ x = 9 \ , \ y = 0 \ , \ v = 2 \\ w = 1 \ , \ h = 2 \ , \ x = 9 \ , \ y = 2 \ , \ v = 2 \end{array}$$



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



w =6, h =9, x =0, y =0, v =54 w =4, h =7, x =6, y =0, v =28



7x3	
7x7	3x5

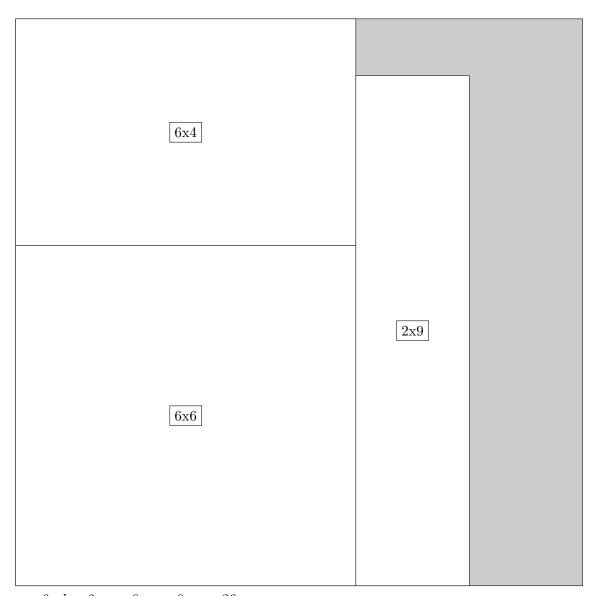
$$\mathbf{w}$$
 =7 , h =7 , x =0 , y =0 , v =49

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

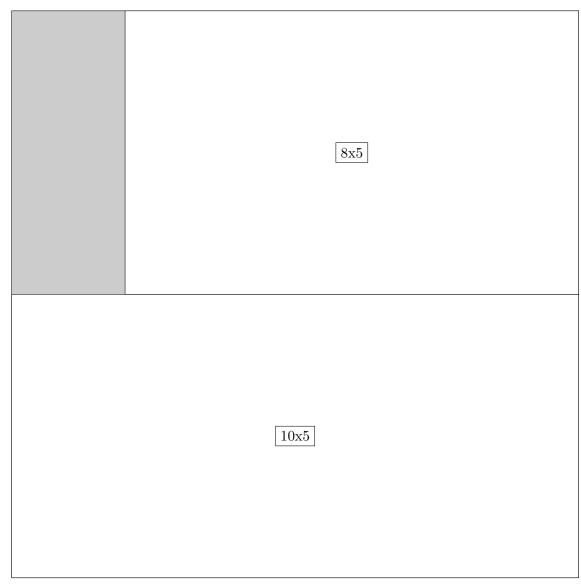
$$\le 3$$
 , h =5 , x =7 , y =0 , v =
15

5x4	5x4
7x6	3x5

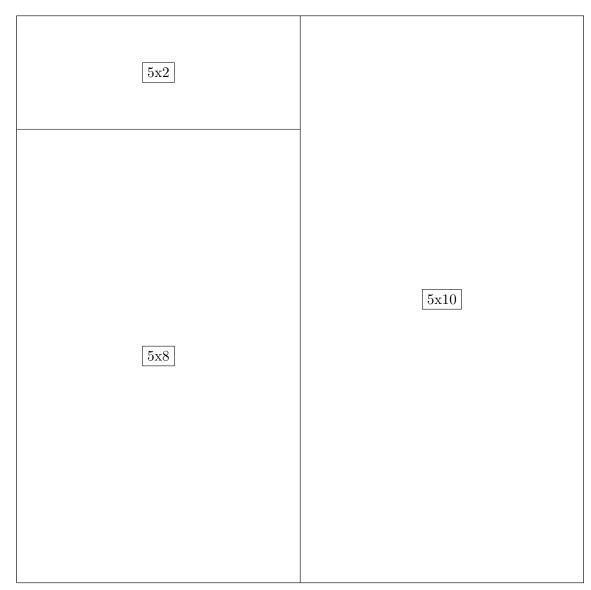
$$\begin{array}{l} w=7\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=42\\ w=5\ ,\, h=4\ ,\, x=0\ ,\, y=6\ ,\, v=20\\ w=5\ ,\, h=4\ ,\, x=5\ ,\, y=6\ ,\, v=20\\ w=3\ ,\, h=5\ ,\, x=7\ ,\, y=0\ ,\, v=15 \end{array}$$



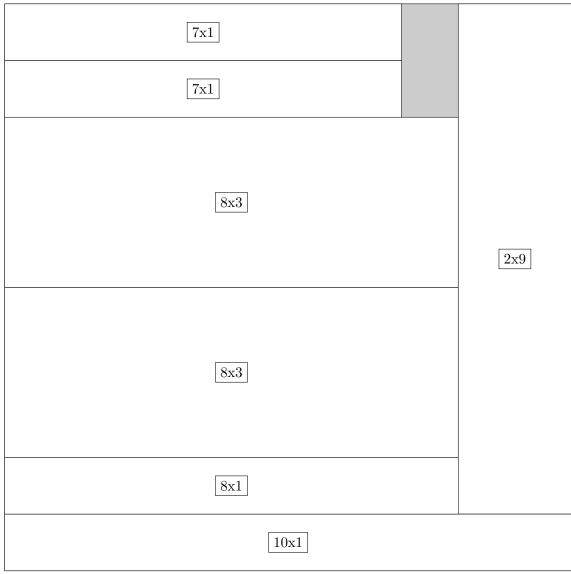
$$\begin{array}{l} w = 6 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 36 \\ w = 6 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 24 \\ w = 2 \ , \ h = 9 \ , \ x = 6 \ , \ y = 0 \ , \ v = 18 \end{array}$$



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



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



$$\mathbf{w}$$
 =8 , h =3 , x =0 , y =2 , v =24

$$\le=8$$
 , h =3 , x =0 , y =5 , v =24

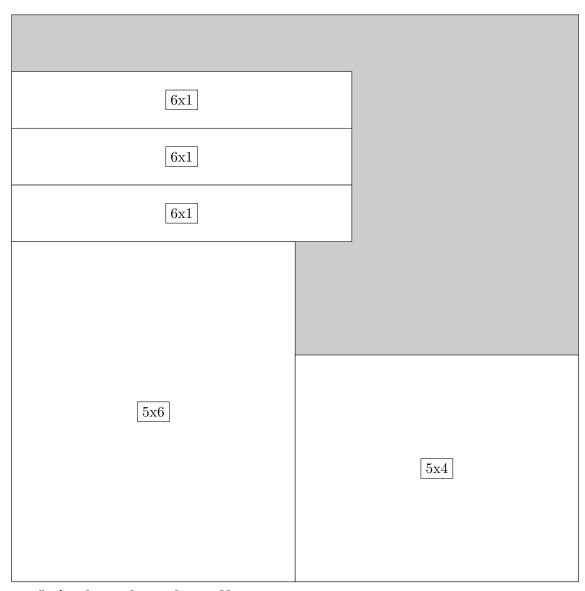
$$\mathbf{w}$$
 =2 , h =9 , x =8 , y =1 , v =18

$$\mathbf{w}$$
 =10 , h =1 , x =0 , y =0 , v =10

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

$$w = 7$$
, $h = 1$, $x = 0$, $y = 8$, $v = 7$

$$\mathbf{w}$$
 =7 , h =1 , x =0 , y =9 , v =7

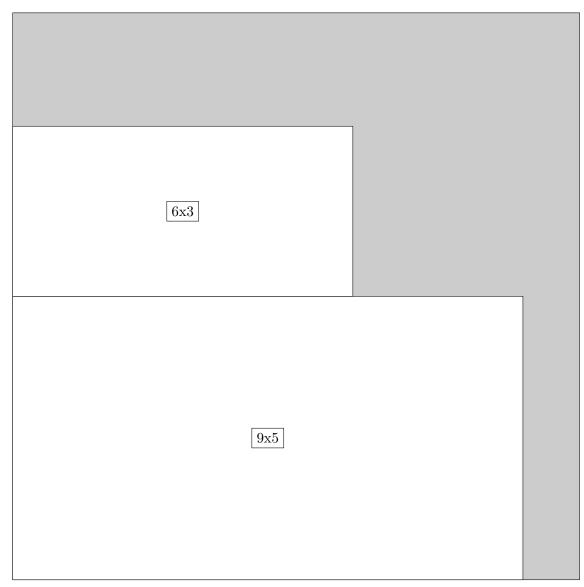


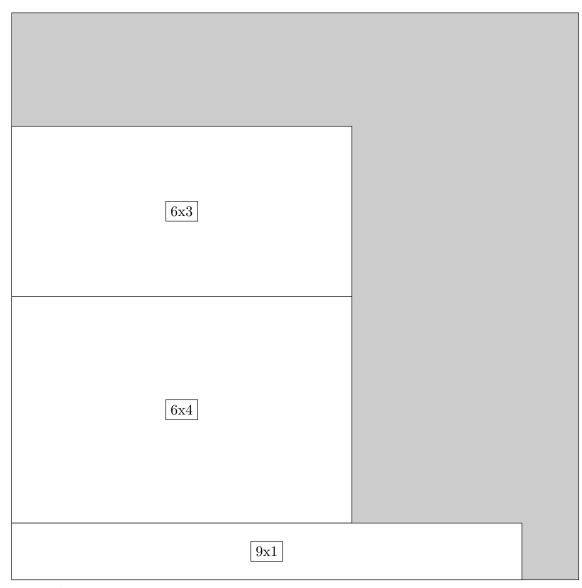
$$\begin{array}{l} w = 5 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 4 \ , \ x = 5 \ , \ y = 0 \ , \ v = 20 \end{array}$$

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

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

$$w = 6$$
, $h = 1$, $x = 0$, $y = 8$, $v = 6$





$$\begin{array}{l} w = 6 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 1 \ , \ v = \! 24 \\ w = \! 6 \ , \ h = \! 3 \ , \ x = \! 0 \ , \ y = \! 5 \ , \ v = \! 18 \end{array}$$

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