$ClassName: \ Class_01.2bp\text{-}49$

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

TypeNum: <u>65</u> Num: <u>100</u> OutS: <u>3800</u> InS: <u>3417</u> Rate: <u>0.899</u> UB: <u>38</u> LB0: <u>38</u> LB: <u>38</u>

LBWithCut: $\underline{38}$ NodeCut: $\underline{0}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{38}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.530 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.082 \ s} \\ {\rm TotalTime:} \ \underline{0.676 \ s} \end{array}$



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

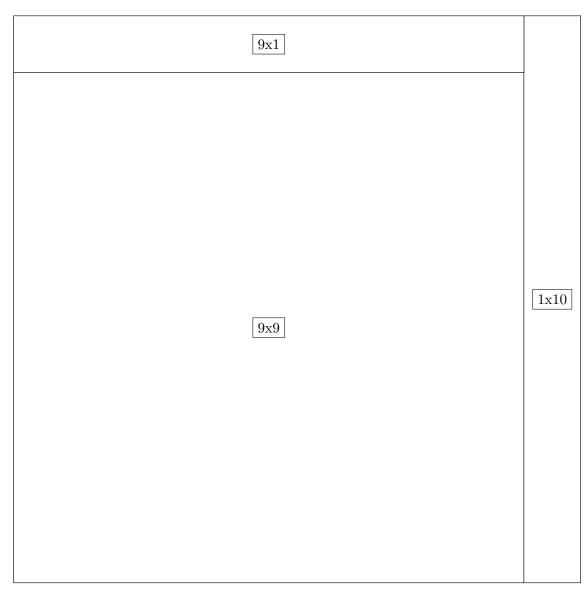


 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100

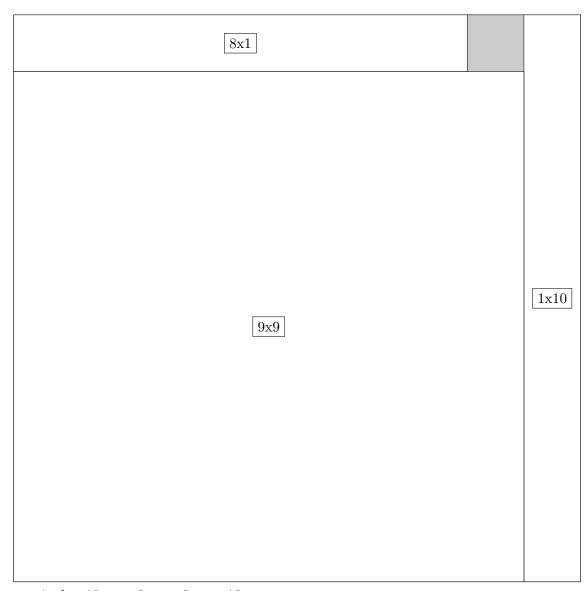




w =9, h =10, x =0, y =0, v =90 w =1, h =10, x =9, y =0, v =10

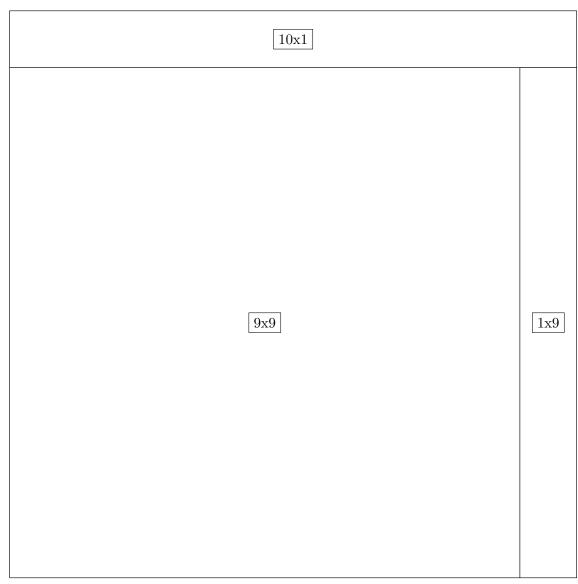


$$\begin{array}{l} w = 9 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 81 \\ w = 1 \ , \ h = 10 \ , \ x = 9 \ , \ y = 0 \ , \ v = 10 \\ w = 9 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 9 \end{array}$$

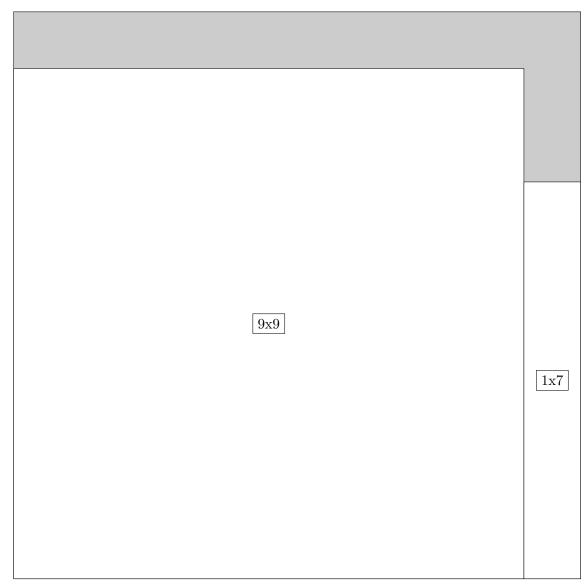


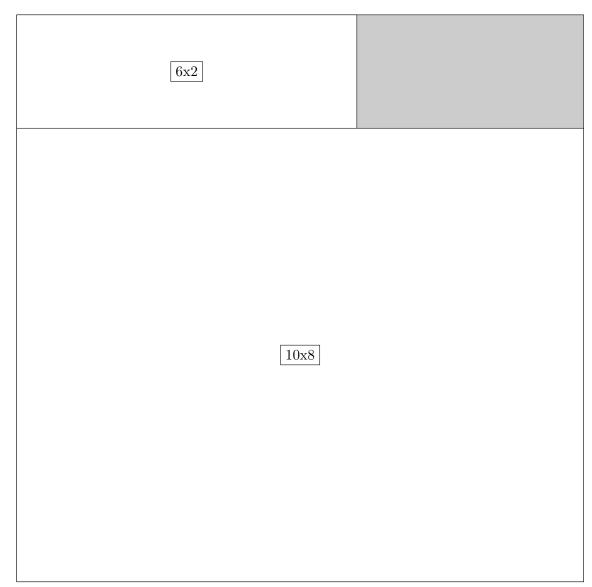
 $\begin{array}{l} w = 1 \ , \ h = \! 10 \ , \ x = \! 9 \ , \ y = \! 0 \ , \ v = \! 10 \\ w = \! 9 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 81 \end{array}$

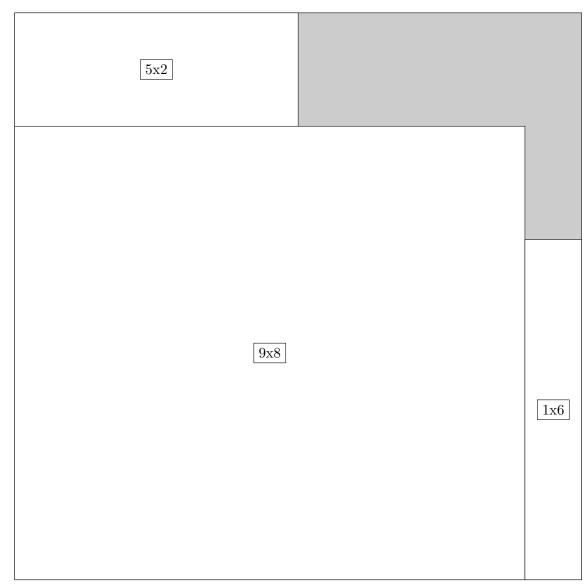
w = 8, h = 1, x = 0, y = 9, v = 8



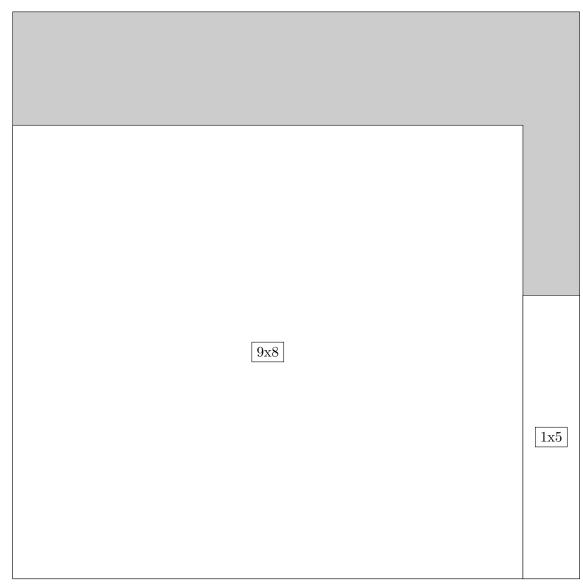
 $\begin{array}{l} w = 9 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 81 \\ w = 10 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 10 \\ w = 1 \ , \ h = 9 \ , \ x = 9 \ , \ y = 0 \ , \ v = 9 \end{array}$





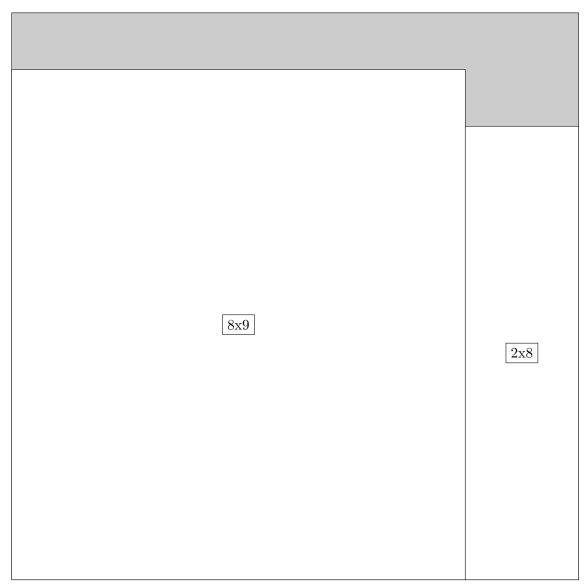


$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 72 \\ w = 5 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 10 \\ w = 1 \ , \ h = 6 \ , \ x = 9 \ , \ y = 0 \ , \ v = 6 \end{array}$$



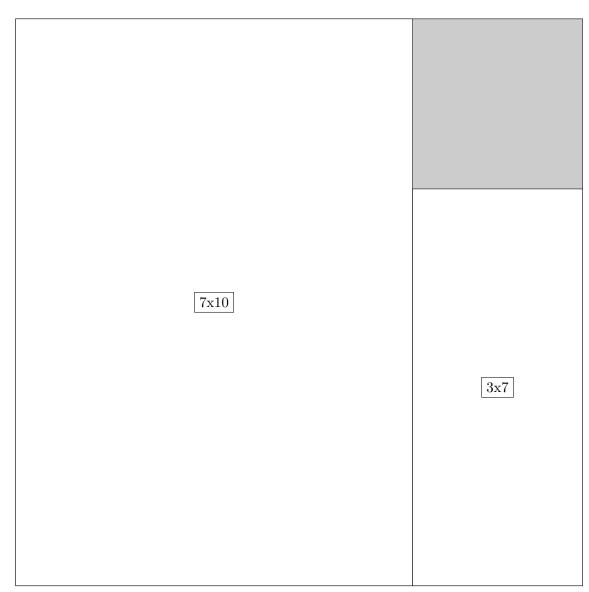
8x9	2x9

 $\begin{array}{l} w = 8 \ , \, h = 9 \ , \, x = 0 \ , \, y = 0 \ , \, v = 72 \\ w = 2 \ , \, h = 9 \ , \, x = 8 \ , \, y = 0 \ , \, v = 18 \end{array}$

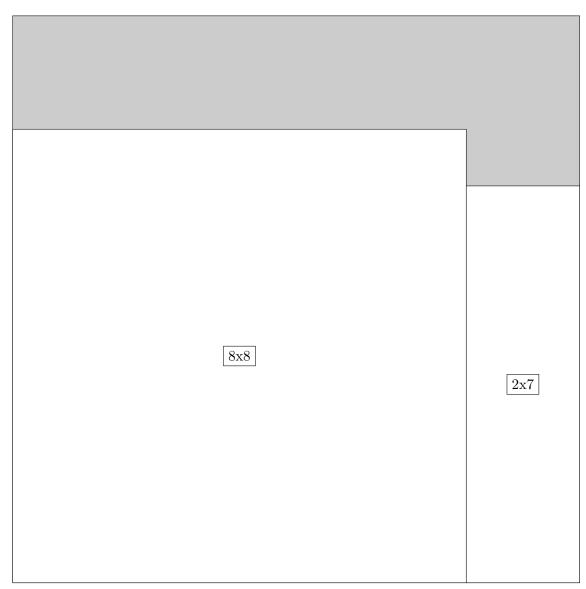




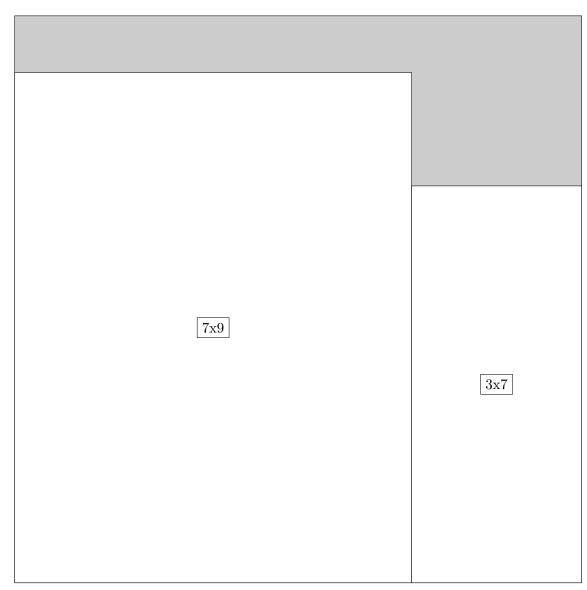


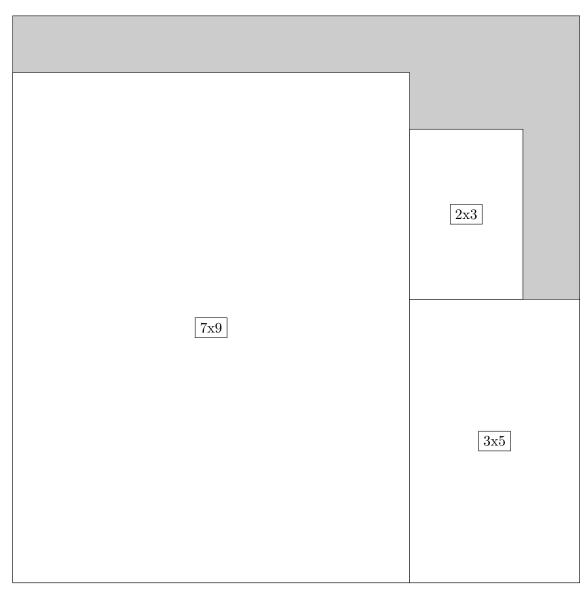


w =7, h =10, x =0, y =0, v =70 w =3, h =7, x =7, y =0, v =21



w =8, h =8, x =0, y =0, v =64 w =2, h =7, x =8, y =0, v =14

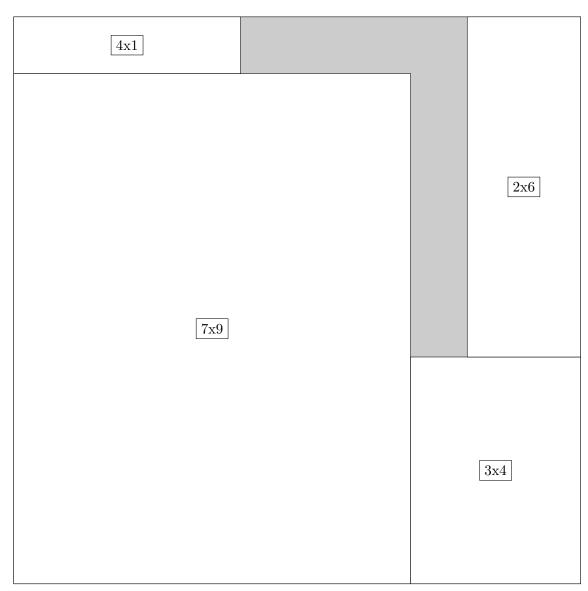




$$\mathbf{w}$$
 =7 , \mathbf{h} =9 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =63

$$\begin{array}{c} w = 3 \; , \; h = 5 \; , \; x = 7 \; , \; y = 0 \; , \; v = 15 \\ w = 2 \; , \; h = 3 \; , \; x = 7 \; , \; y = 5 \; , \; v = 6 \\ \end{array}$$

$$w = 2$$
, $h = 3$, $x = 7$, $y = 5$, $v = 6$

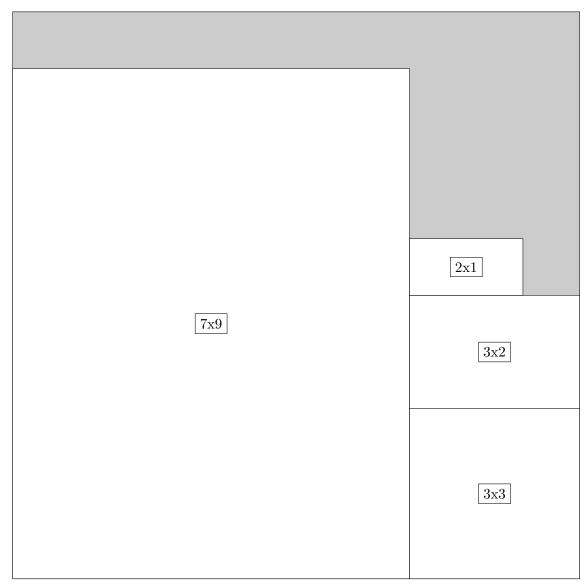


$$\mathbf{w}$$
 =7 , \mathbf{h} =9 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =63

$$\mathbf{w}$$
 =3 , h =4 , x =7 , y =0 , v =12

$$\mathbf{w}$$
 =2 , h =6 , x =8 , y =4 , v =12

$$\mathbf{w}=\!\!4$$
 , $\mathbf{h}=\!\!1$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!9$, $\mathbf{v}=\!\!4$

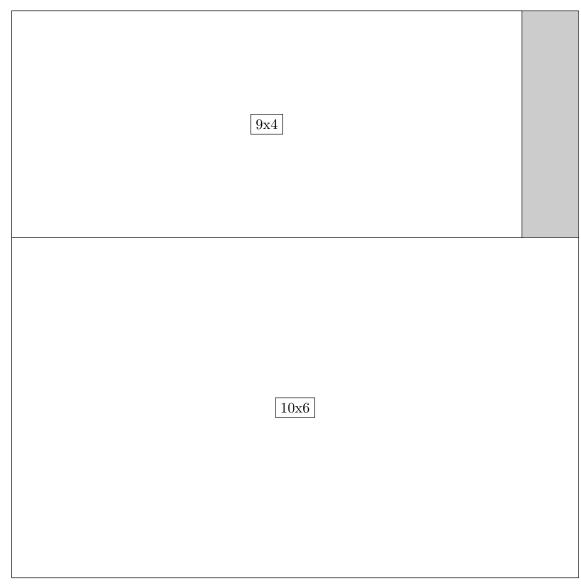


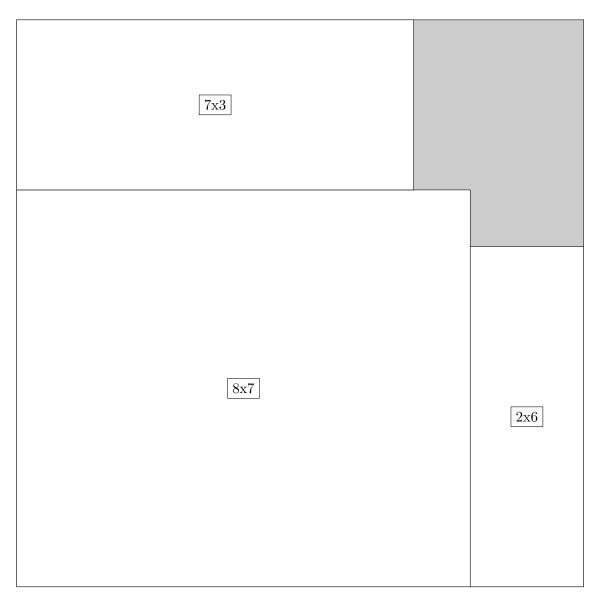
$$\mathbf{w}$$
 =7 , \mathbf{h} =9 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =63

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

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

$$\mathbf{w}$$
 =2 , h =1 , x =7 , y =5 , v =2

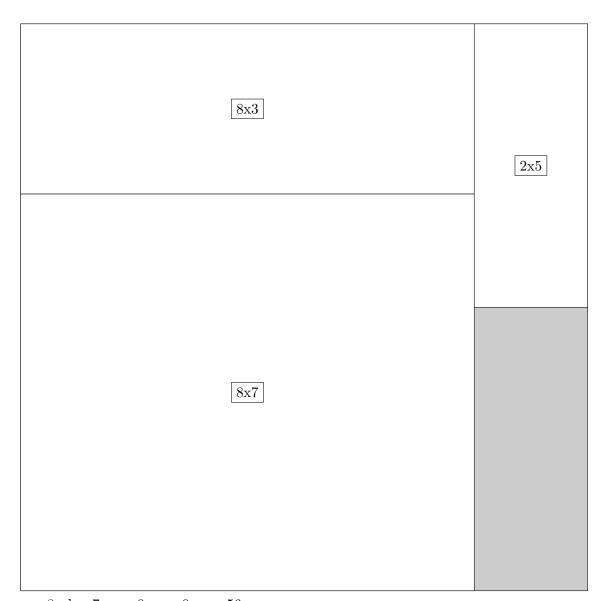




$$w = 8$$
, $h = 7$, $x = 0$, $y = 0$, $v = 56$

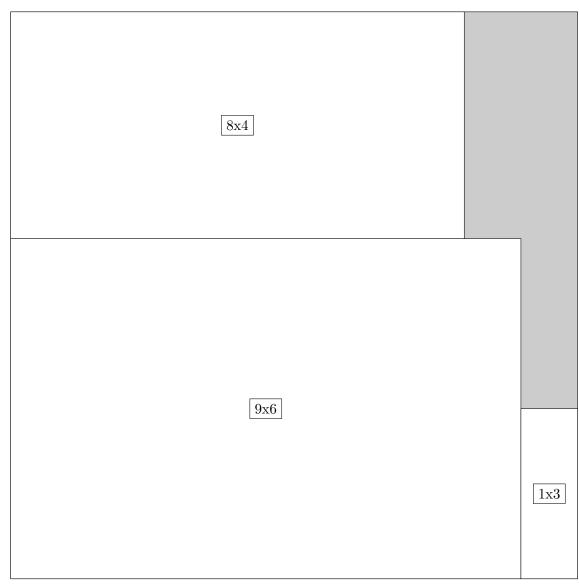
$$\mathbf{w}$$
 =7 , h =3 , x =0 , y =7 , v =21

$$\mathbf{w}$$
 =2 , h =6 , x =8 , y =0 , v =12

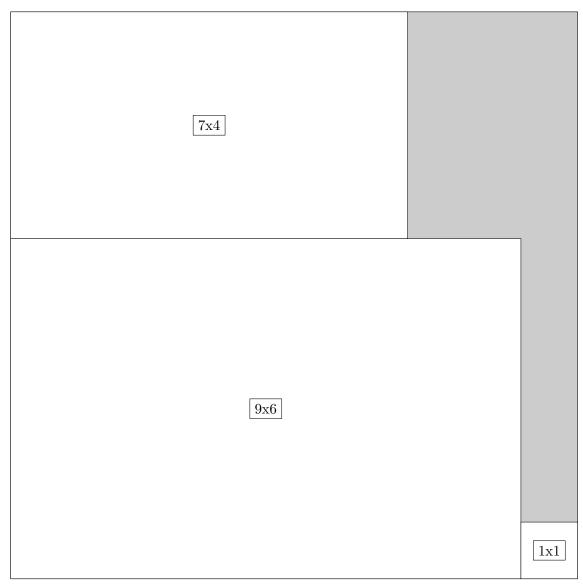


$$\begin{array}{l} w = 8 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 56 \\ w = 8 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 24 \end{array}$$

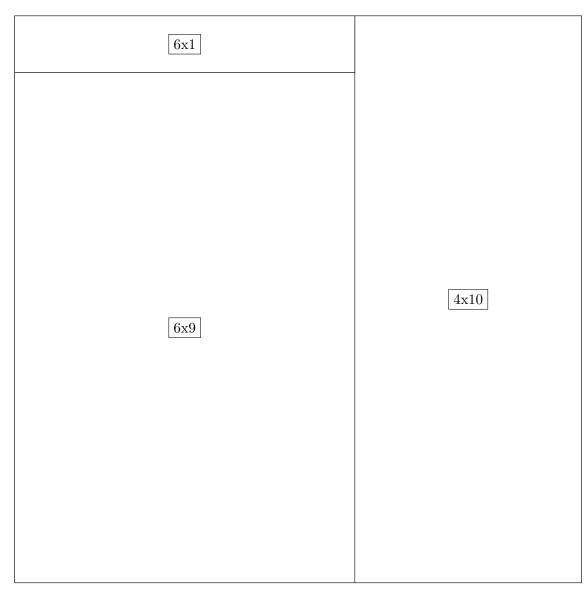
 \mathbf{w} =2 , h =5 , x =8 , y =5 , v =10



$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 8 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 32 \\ w = 1 \ , \ h = 3 \ , \ x = 9 \ , \ y = 0 \ , \ v = 3 \end{array}$$



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



 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 4 \ , \ h = 10 \ , \ x = 6 \ , \ y = 0 \ , \ v = 40 \\ w = 6 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 6 \end{array}$

	4x2
6x9	4x7

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

$$w = 4$$
 , $h = 2$, $x = 6$, $y = 7$, $v = 8$

	$\boxed{4\mathrm{x}3}$
6x8	$4\mathrm{x}5$

 $\begin{array}{l} w = 6 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 48 \\ w = 4 \ , \ h = 5 \ , \ x = 6 \ , \ y = 0 \ , \ v = 20 \end{array}$

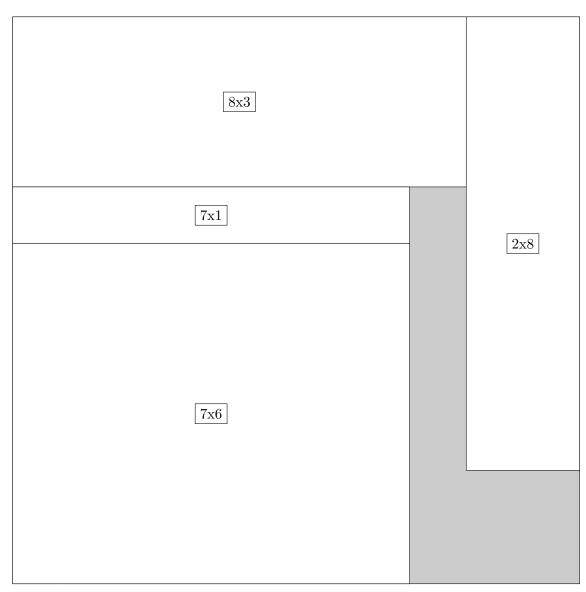
 \mathbf{w} =4 , h =3 , x =6 , y =5 , v =12

7x4	
7x6	2x10

$$w = 7$$
, $h = 6$, $x = 0$, $y = 0$, $v = 42$

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

$$\mathbf{w}$$
 =2 , h =10 , x =7 , y =0 , v =20



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

$$\le =2$$
 , h =8 , x =8 , y =2 , v =
16

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

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

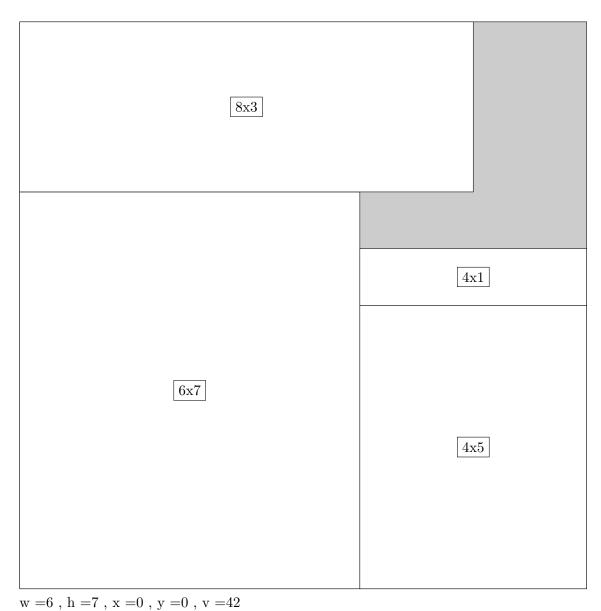
9x3	
	4x1
	4x1
6x7	4x5

$$\begin{array}{l} w = 6 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 9 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 27 \end{array}$$

$$w = 9$$
, $h = 5$, $x = 0$, $y = 7$, $v = 27$
 $w = 4$, $h = 5$, $x = 6$, $y = 0$, $v = 20$

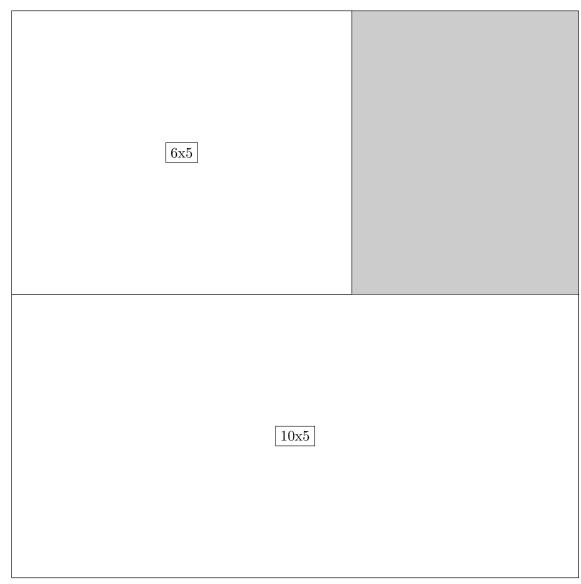
$$\mathbf{w}$$
 =4 , h =1 , x =6 , y =5 , v =4

$$w = 4$$
, $h = 1$, $x = 6$, $y = 6$, $v = 4$

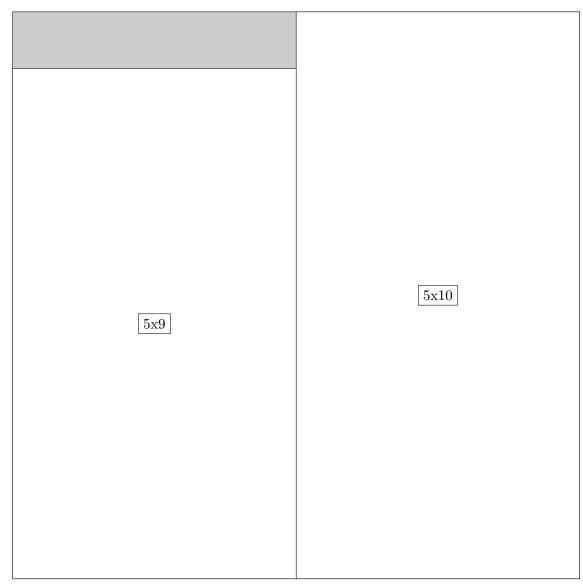


$$w = 0$$
, $h = 7$, $x = 0$, $y = 0$, $v = 42$
 $w = 8$, $h = 3$, $x = 0$, $y = 7$, $v = 24$

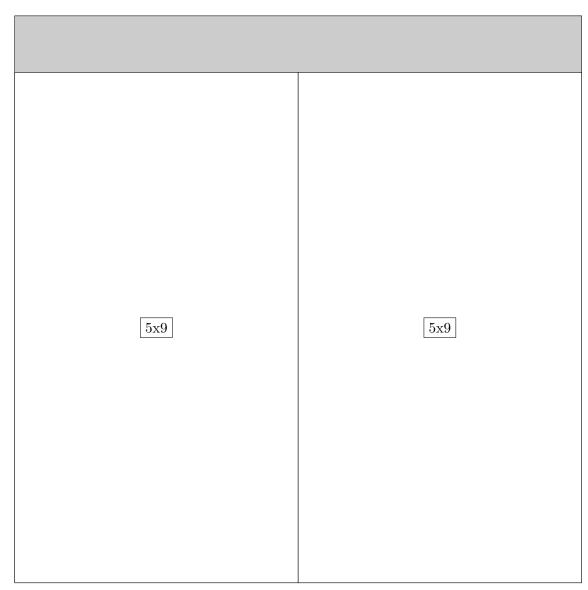
$$\begin{array}{l} w = \! 4 \ , \ h = \! 5 \ , \ x = \! 6 \ , \ y = \! 0 \ , \ v = \! 20 \\ w = \! 4 \ , \ h = \! 1 \ , \ x = \! 6 \ , \ y = \! 5 \ , \ v = \! 4 \end{array}$$



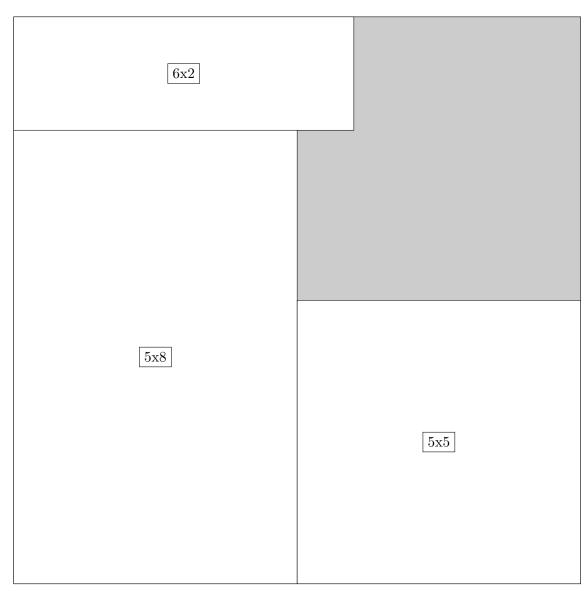
$$\begin{array}{l} w = \! 10 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 6 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 5 \ , \ v = \! 30 \end{array}$$



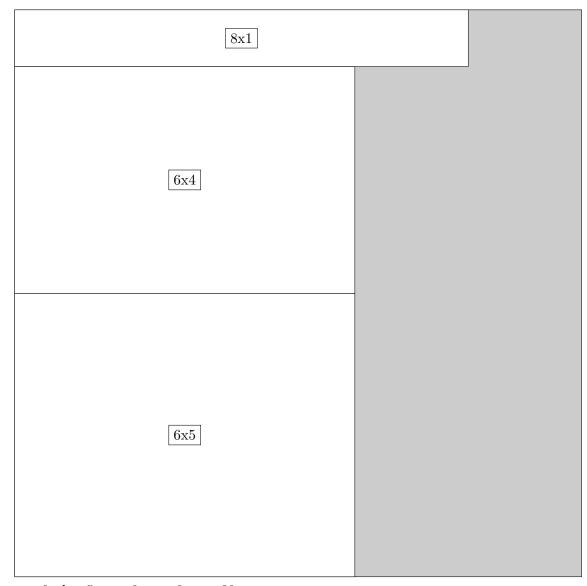
w =5, h =10, x =5, y =0, v =50 w =5, h =9, x =0, y =0, v =45



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



$$\begin{array}{l} w = 5 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 40 \\ w = 5 \ , \ h = 5 \ , \ x = 5 \ , \ y = 0 \ , \ v = 25 \\ w = 6 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 12 \end{array}$$



$$\begin{array}{l} w = 6 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 6 \ , \ h = 4 \ , \ x = 0 \ , \ y = 5 \ , \ v = 24 \\ w = 8 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 8 \end{array}$$