${\bf ClassName:}\ {\bf Class_01.2bp\text{-}37}$

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

TypeNum: <u>56</u> Num: <u>80</u> OutS: <u>2900</u> InS: <u>2644</u> Rate: <u>0.912</u> UB: <u>29</u> LB0: <u>29</u> LB: <u>29</u>

LBWithCut: $\underline{\mathbf{29}}$ NodeCut: $\underline{\mathbf{0}}$

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

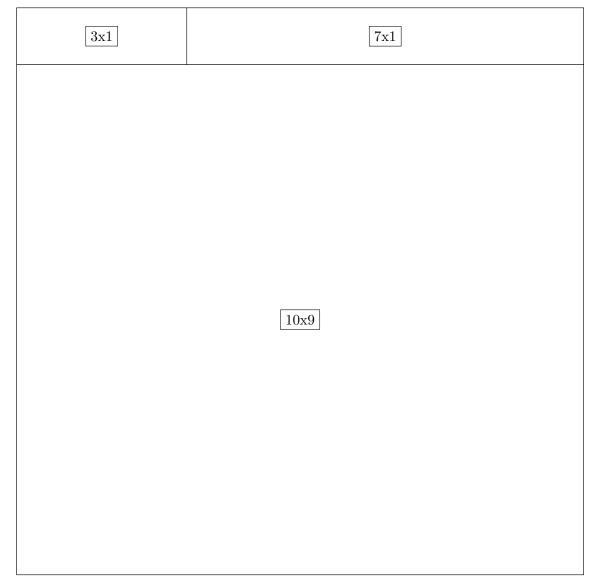
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{29}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: $\underline{\mathbf{true}}$

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.110 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.062 \ s} \\ {\rm TotalTime:} \ \underline{0.235 \ s} \end{array}$



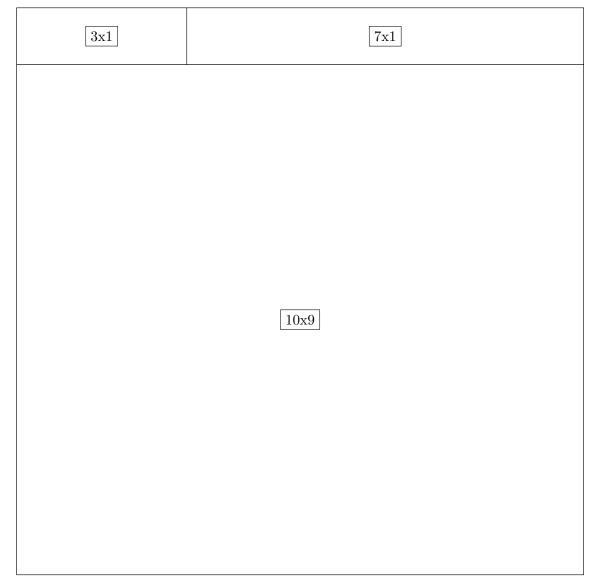
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100



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

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

$$\mathbf{w}$$
 =3 , h =1 , x =0 , y =9 , v =3



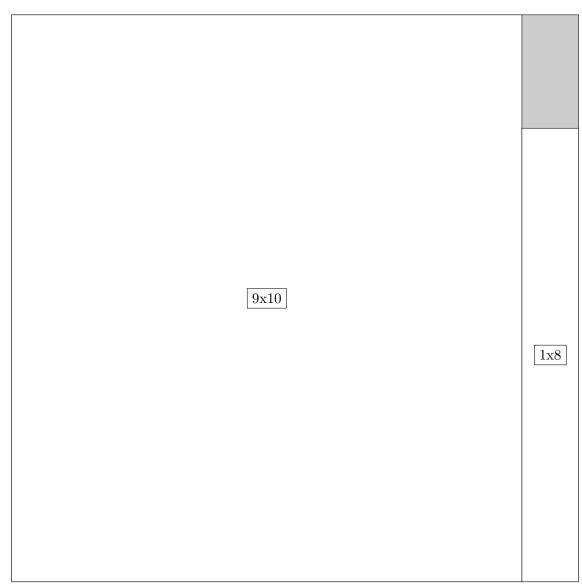
$$w = 10$$
, $h = 9$, $x = 0$, $y = 0$, $v = 90$

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

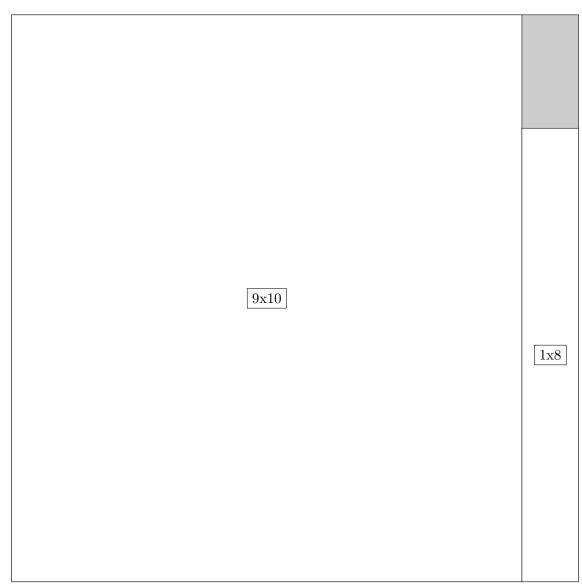
$$\mathbf{w}$$
 =3 , h =1 , x =0 , y =9 , v =3

[4x1]	6x1
	10x9

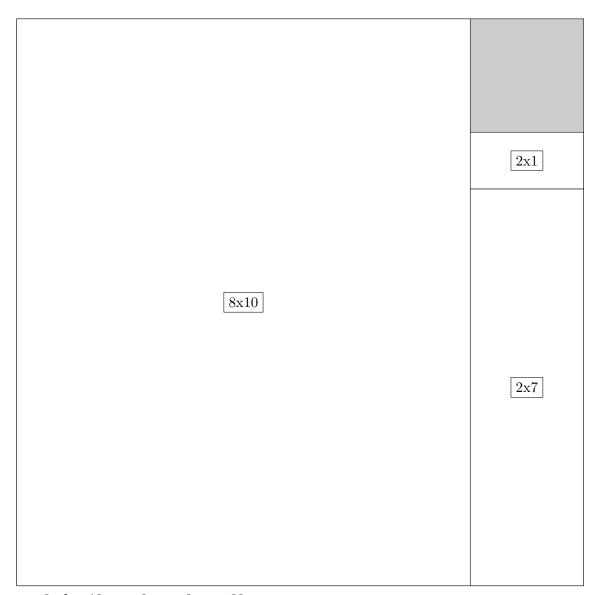
$$\begin{array}{l} w = & 10 \ , \ h = & 9 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 90 \\ w = & 6 \ , \ h = & 1 \ , \ x = & 4 \ , \ y = & 9 \ , \ v = & 6 \\ w = & 4 \ , \ h = & 1 \ , \ x = & 0 \ , \ y = & 9 \ , \ v = & 4 \end{array}$$



w =9, h =10, x =0, y =0, v =90 w =1, h =8, x =9, y =0, v =8



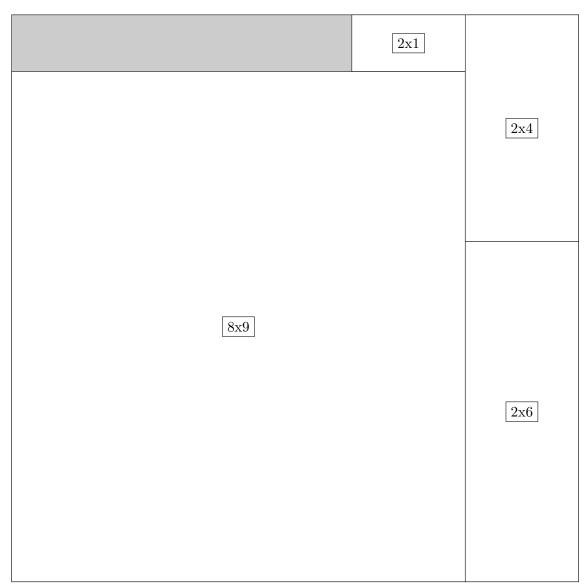
w =9, h =10, x =0, y =0, v =90 w =1, h =8, x =9, y =0, v =8



$$\le =8$$
 , h =10 , x =0 , y =0 , v =80

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

$$\mathbf{w}$$
 =2 , h =1 , x =8 , y =7 , v =2

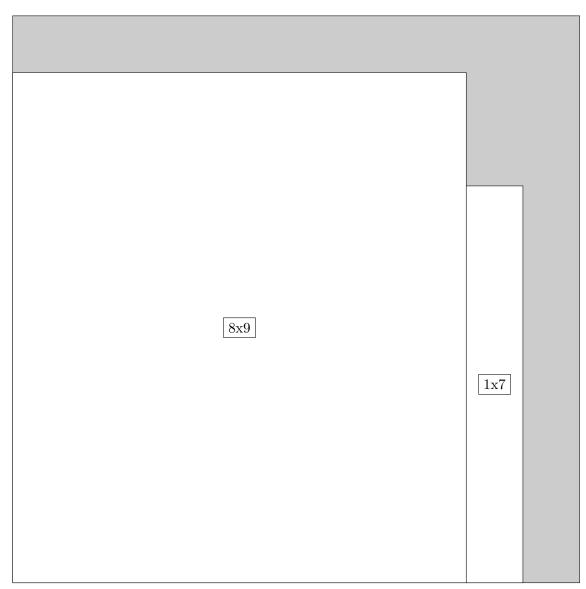


$$\mathbf{w}$$
 =8 , h =9 , x =0 , y =0 , v =72

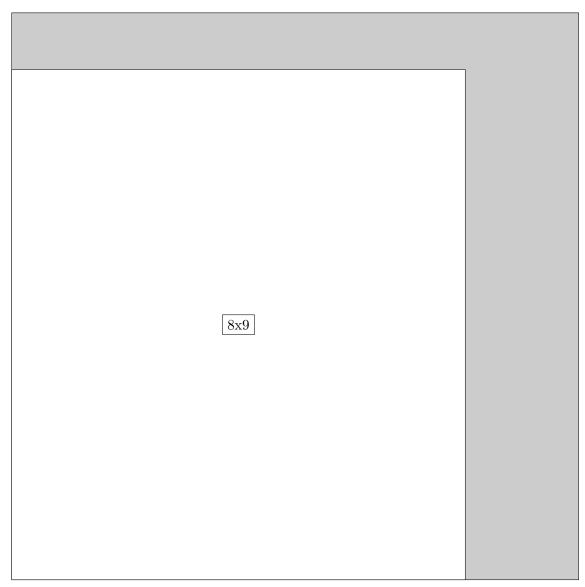
$$\mathbf{w}$$
 =2 , h =6 , x =8 , y =0 , v =12

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

$$\mathbf{w}$$
 =2 , h =1 , x =6 , y =9 , v =2



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



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

3x3	6x3
	10x7

$$\begin{array}{l} w = \! 10 \; , \; h = \! 7 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 70 \\ w = \! 6 \; , \; h = \! 3 \; , \; x = \! 4 \; , \; y = \! 7 \; , \; v = \! 18 \\ w = \! 3 \; , \; h = \! 3 \; , \; x = \! 1 \; , \; y = \! 7 \; , \; v = \! 9 \end{array}$$

5x2	5x3
	x7

 $\begin{array}{l} w = & 10 \ , \ h = & 7 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 70 \\ w = & 5 \ , \ h = & 3 \ , \ x = & 5 \ , \ y = & 7 \ , \ v = & 15 \\ w = & 5 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 7 \ , \ v = & 10 \end{array}$

3x2		7x2	
	8x8		2x8

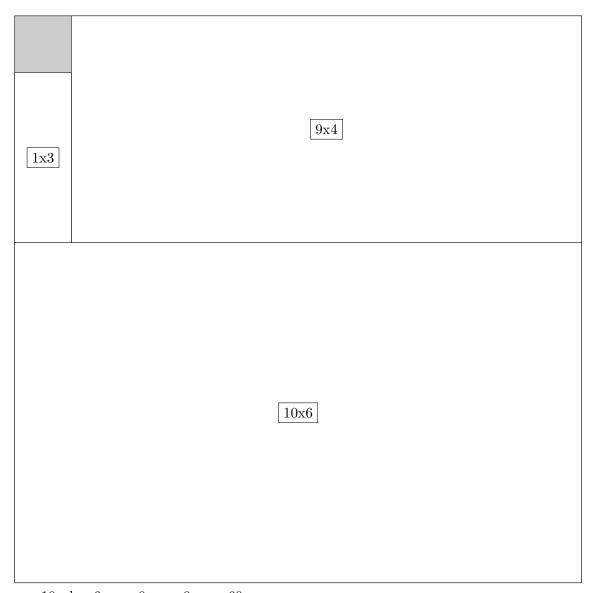
$$w=8$$
 , $h=8$, $x=0$, $y=0$, $v=64$

$$\le =2$$
 , h =8 , x =8 , y =0 , v =
16

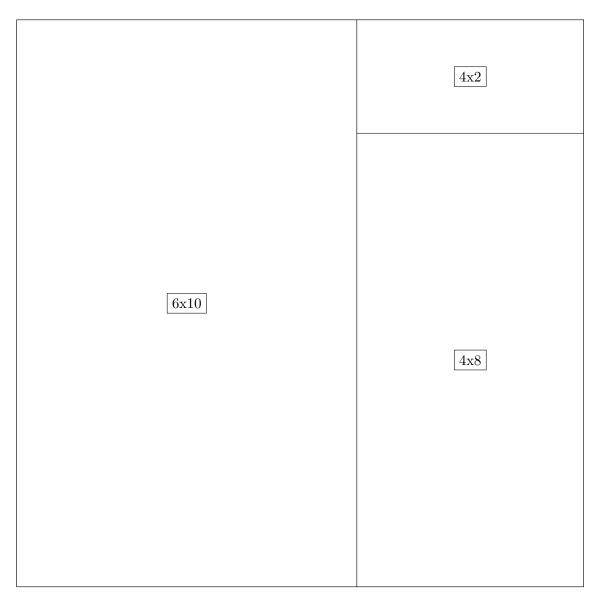
$$\mathbf{w}$$
 =7 , h =2 , x =3 , y =8 , v =
14

$$\mathbf{w}$$
 =3 , h =2 , x =0 , y =8 , v =6





$$\begin{array}{l} w = & 10 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 60 \\ w = & 9 \ , \ h = & 4 \ , \ x = & 1 \ , \ y = & 6 \ , \ v = & 36 \\ w = & 1 \ , \ h = & 3 \ , \ x = & 0 \ , \ y = & 6 \ , \ v = & 3 \end{array}$$



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

$$\mathbf{w}$$
 =4 , h =8 , x =6 , y =0 , v =32

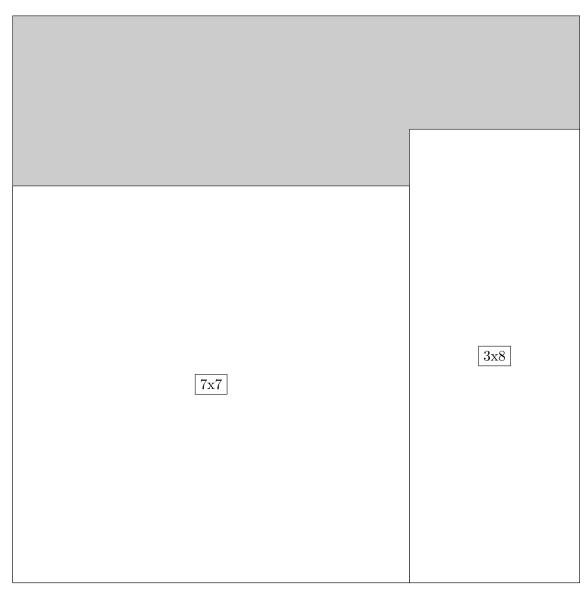
$$w = 4$$
, $h = 2$, $x = 6$, $y = 8$, $v = 8$

	62	£2
7x8		3x8

$$\begin{array}{l} w = 7 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 56 \\ w = 3 \ , \ h = 8 \ , \ x = 7 \ , \ y = 0 \ , \ v = 24 \\ w = 6 \ , \ h = 2 \ , \ x = 4 \ , \ y = 8 \ , \ v = 12 \end{array}$$

6x9	[4x9]

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



w =7, h =7, x =0, y =0, v =49 w =3, h =8, x =7, y =0, v =24

6x8	4x8	
O.C.		

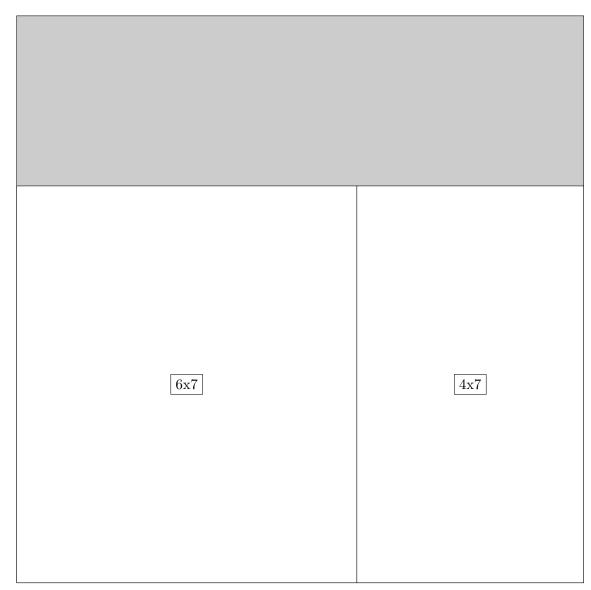
 $\begin{array}{l} w = 6 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = \!\! 48 \\ w = \!\! 4 \ , \, h = \!\! 8 \ , \, x = \!\! 6 \ , \, y = \!\! 0 \ , \, v = \!\! 32 \end{array}$

7x4	
7x6	3x7

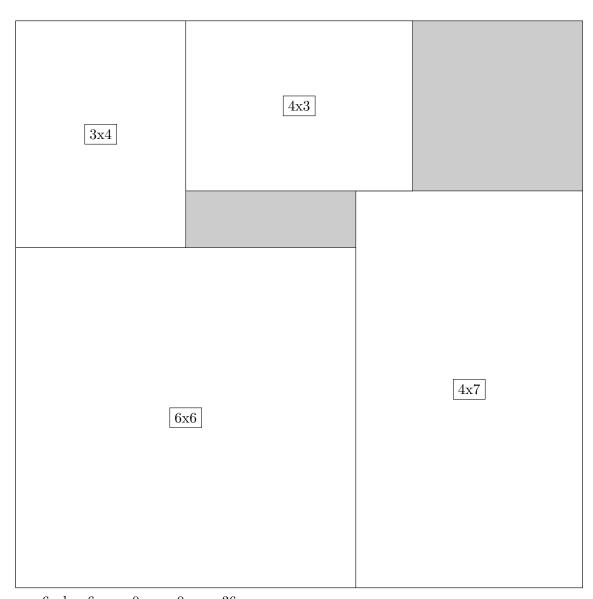
$$w = 7$$
, $h = 6$, $x = 0$, $y = 0$, $v = 42$

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

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

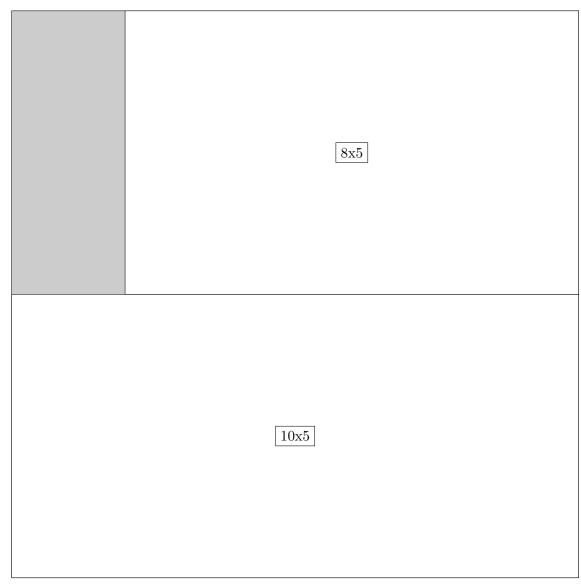


w =6, h =7, x =0, y =0, v =42 w =4, h =7, x =6, y =0, v =28



$$\begin{array}{l} w = 6 \;, \; h = 6 \;, \; x = 0 \;, \; y = 0 \;, \; v = 36 \\ w = 4 \;, \; h = 7 \;, \; x = 6 \;, \; y = 0 \;, \; v = 28 \\ \end{array}$$

$$\mathbf{w}$$
 =3 , h =4 , x =0 , y =6 , v =12



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

3x5		7x5	
	8x5		

$$\mathbf{w}$$
 =8 , h =5 , x =0 , y =0 , v =40

$$\mathbf{w}$$
 =7 , h =5 , x =3 , y =5 , v =35

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

7x5	
7x5	3x6

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

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

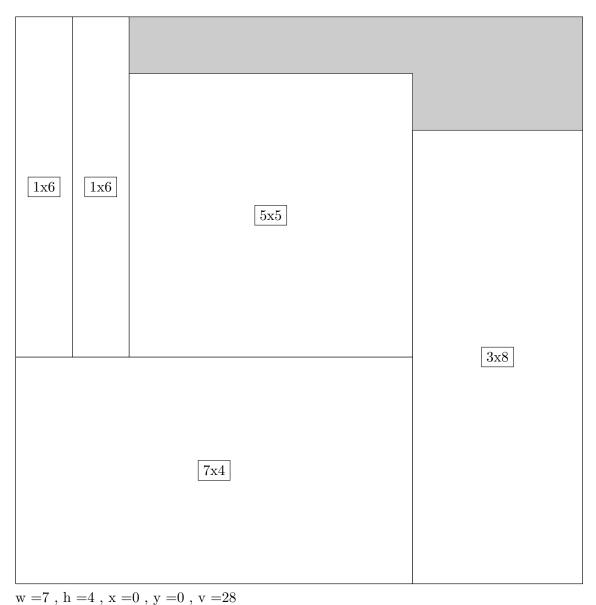
$$\mathbf{w}$$
 =3 , h =6 , x =7 , y =0 , v =18

	3x5	$4\mathrm{x}5$
3x9		7x5

w = 3, h = 9, x = 0, y = 0, v = 27 w = 7, h = 5, x = 3, y = 0, v = 35

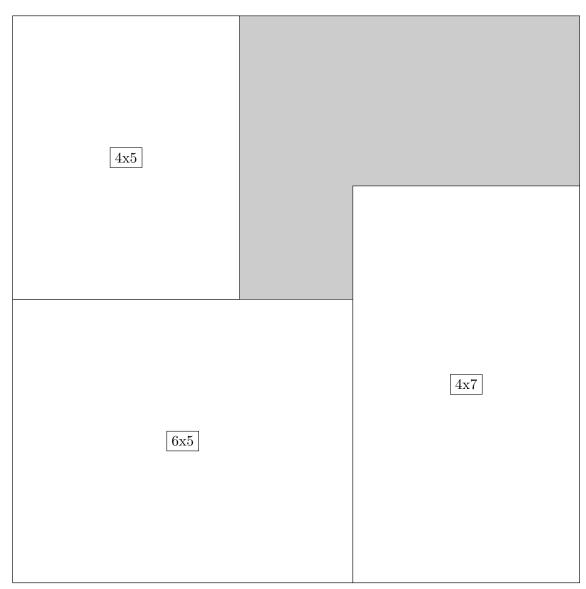
 \mathbf{w} =4 , h =5 , x =6 , y =5 , v =20

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



$$\mathbf{w}$$
 =1 , h =6 , x =0 , y =4 , v =6

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



$$w = 6$$
, $h = 5$, $x = 0$, $y = 0$, $v = 30$

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

$$\mathbf{w}$$
 =4 , h =5 , x =0 , y =5 , v =20