$ClassName: \ Class_01.2bp\text{-}34$

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

TypeNum: <u>55</u> Num: <u>80</u> OutS: <u>2600</u> InS: <u>2352</u> Rate: <u>0.905</u> UB: <u>26</u> LB0: <u>26</u> LB: <u>26</u>

LBWithCut: $\underline{26}$ NodeCut: $\underline{0}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{26}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

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

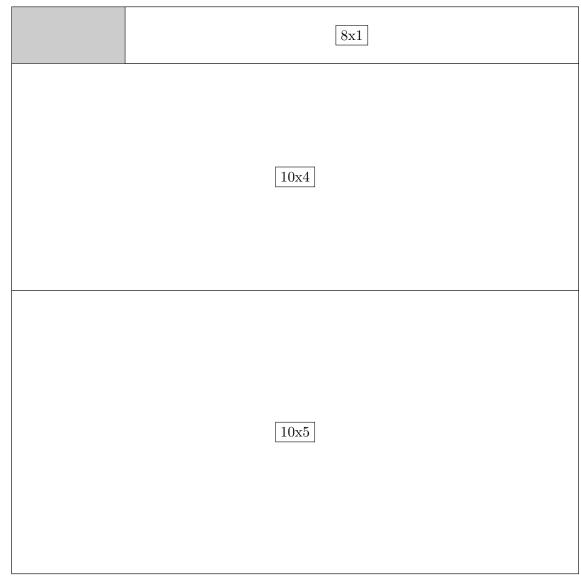
TimeOnInitSolution: $\underline{600.000 \text{ s}}$

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.093 sTotalTime: 600.359 s

1x4	3x4	6x4
		10x6

$$\begin{array}{l} w = \! 10 \; , \; h = \! 6 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 60 \\ w = \! 6 \; , \; h = \! 4 \; , \; x = \! 4 \; , \; y = \! 6 \; , \; v = \! 24 \\ w = \! 3 \; , \; h = \! 4 \; , \; x = \! 1 \; , \; y = \! 6 \; , \; v = \! 12 \end{array}$$

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



 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 10 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 40 \\ w = & 8 \ , \ h = & 1 \ , \ x = & 2 \ , \ y = & 9 \ , \ v = & 8 \end{array}$

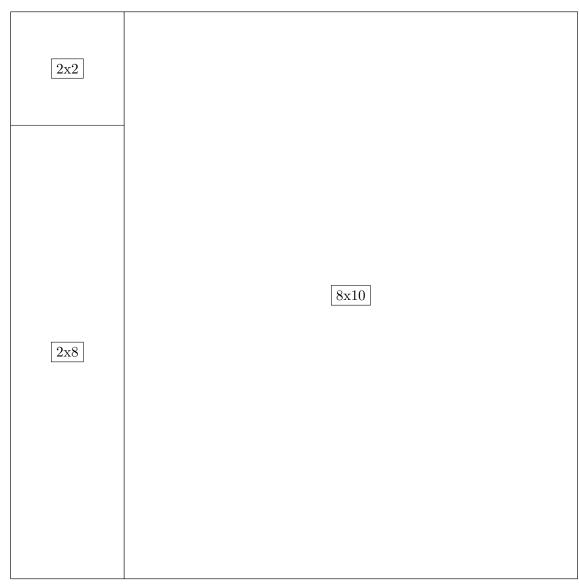
2x4	3x4	
	5x6	5x10

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

 $\le =5$, h =6 , x =0 , y =0 , v =30

 \mathbf{w} =3 , h =4 , x =2 , y =6 , v =12

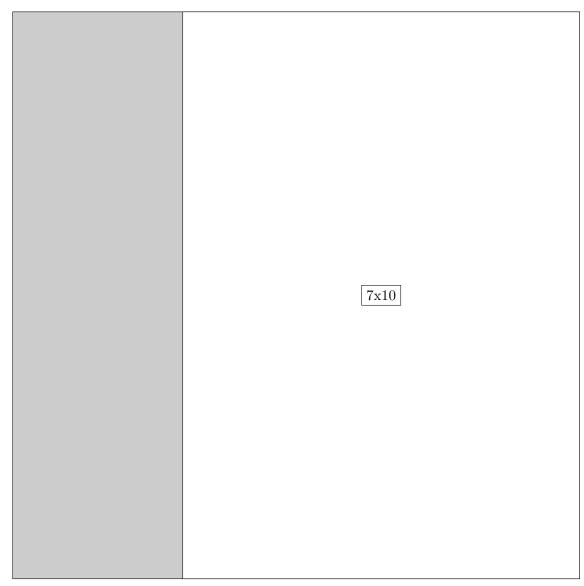
 \mathbf{w} =2 , h =4 , x =0 , y =6 , v =8



$$w=8$$
 , $h=\!10$, $x=\!2$, $y=\!0$, $v=\!80$

$$\mathbf{w}$$
 =2 , h =8 , x =0 , y =0 , v =
16

$$\mathbf{w}$$
 =2 , h =2 , x =0 , y =8 , v =4



 $\le =7$, h =10 , x =3 , y =0 , v =70

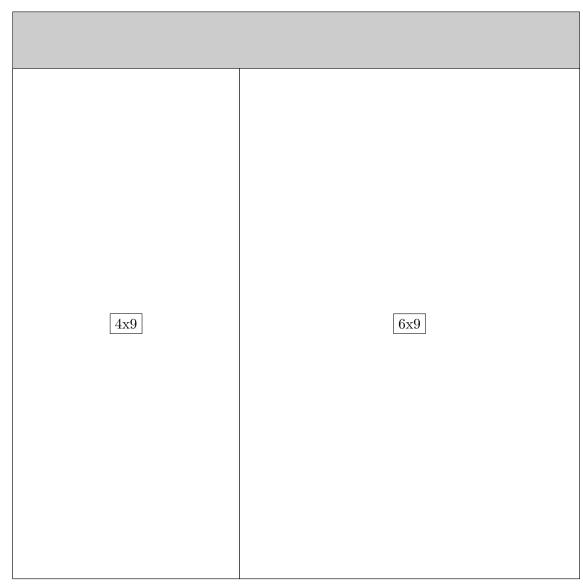
3x3	4x3	
		1x10
9x7		

$$\mathbf{w}$$
 =1 , h =10 , x =9 , y =0 , v =10

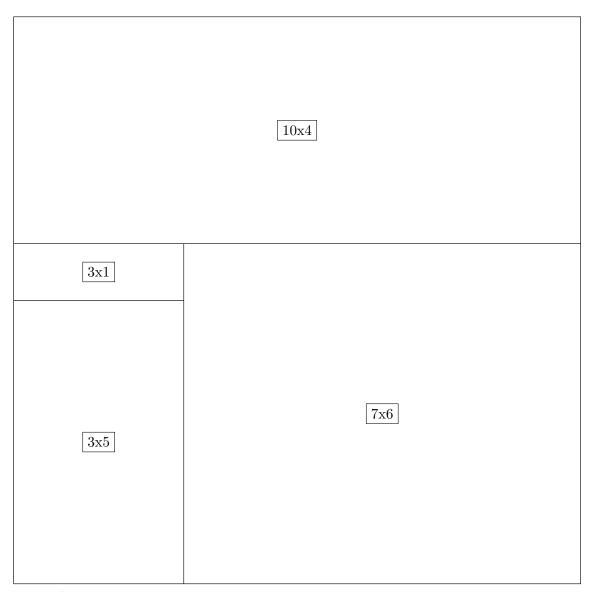
$$\mathbf{w}$$
 =9 , h =7 , x =0 , y =0 , v =63

$$\mathbf{w}$$
 =4 , h =3 , x =5 , y =7 , v =12

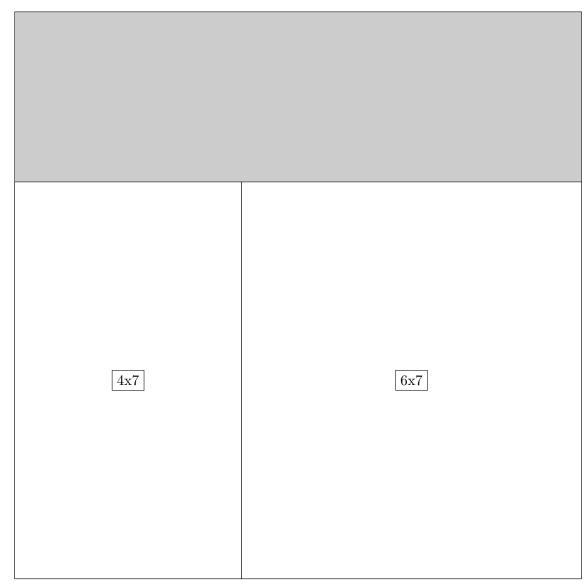
$$\mathbf{w}$$
 =3 , h =3 , x =2 , y =7 , v =9



w =6, h =9, x =4, y =0, v =54 w =4, h =9, x =0, y =0, v =36



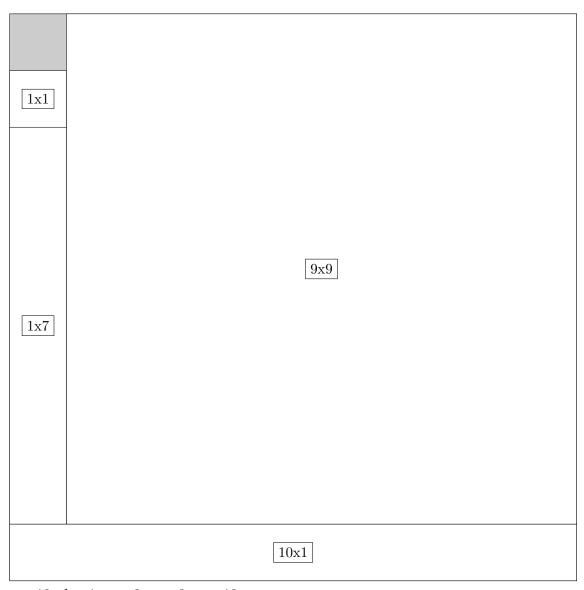
$$\begin{array}{l} w=7\ ,\ h=6\ ,\ x=3\ ,\ y=0\ ,\ v=42\\ w=3\ ,\ h=5\ ,\ x=0\ ,\ y=0\ ,\ v=15\\ w=3\ ,\ h=1\ ,\ x=0\ ,\ y=5\ ,\ v=3\\ w=10\ ,\ h=4\ ,\ x=0\ ,\ y=6\ ,\ v=40 \end{array}$$



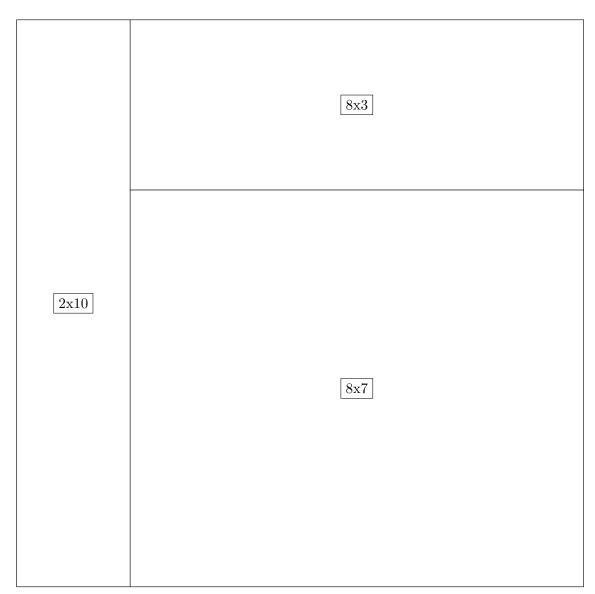
w =6, h =7, x =4, y =0, v =42 w =4, h =7, x =0, y =0, v =28

	6x4
4x9	6x6

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



$$\begin{array}{l} w = \! 10 \; , \; h = \! 1 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 10 \\ w = \! 9 \; , \; h = \! 9 \; , \; x = \! 1 \; , \; y = \! 1 \; , \; v = \! 81 \\ w = \! 1 \; , \; h = \! 7 \; , \; x = \! 0 \; , \; y = \! 1 \; , \; v = \! 7 \\ w = \! 1 \; , \; h = \! 1 \; , \; x = \! 0 \; , \; y = \! 8 \; , \; v = \! 1 \end{array}$$



$$\begin{array}{l} w = 8 \ , \ h = 7 \ , \ x = 2 \ , \ y = 0 \ , \ v = 56 \\ w = 8 \ , \ h = 3 \ , \ x = 2 \ , \ y = 7 \ , \ v = 24 \\ w = 2 \ , \ h = 10 \ , \ x = 0 \ , \ y = 0 \ , \ v = 20 \end{array}$$

3x5	7x4
3x5	7x6

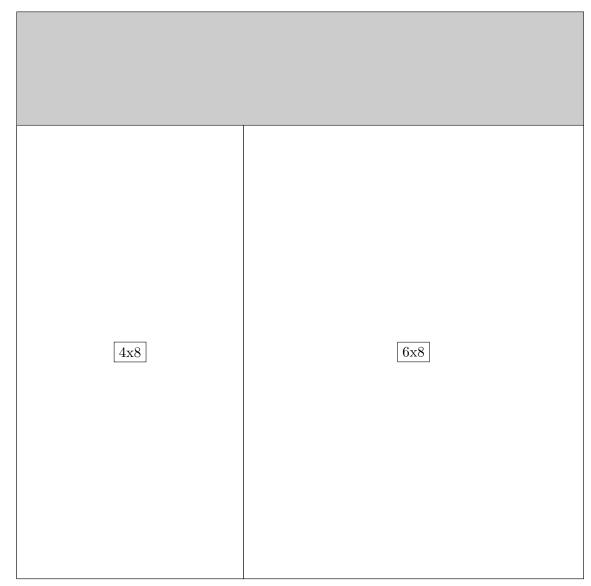
$$\begin{array}{l} w=7\ ,\, h=6\ ,\, x=3\ ,\, y=0\ ,\, v=42\\ w=7\ ,\, h=4\ ,\, x=3\ ,\, y=6\ ,\, v=28\\ w=3\ ,\, h=5\ ,\, x=0\ ,\, y=0\ ,\, v=15\\ w=3\ ,\, h=5\ ,\, x=0\ ,\, y=5\ ,\, v=15 \end{array}$$

7x2	
8x8	2x10

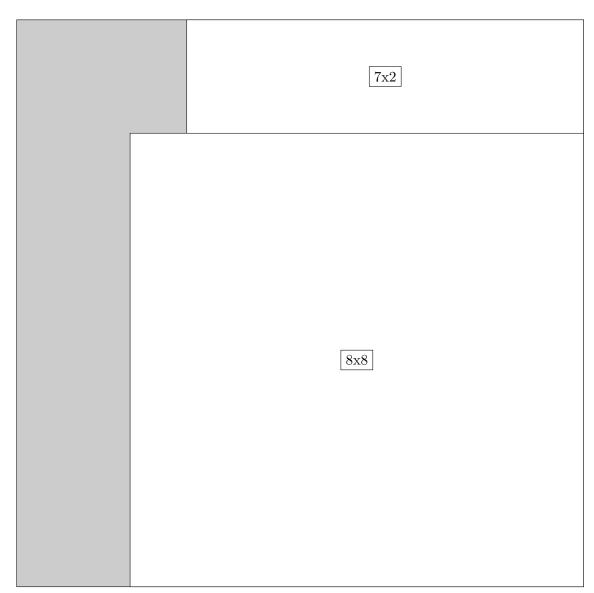
w=2 , h=10 , x=8 , y=0 , v=20

 \mathbf{w} =8 , h =8 , x =0 , y =0 , v =64

 \mathbf{w} =7 , h =2 , x =1 , y =8 , v =14



w =6, h =8, x =4, y =0, v =48 w =4, h =8, x =0, y =0, v =32



$$\begin{array}{l} w = 8 \ , \, h = 8 \ , \, x = 2 \ , \, y = 0 \ , \, v = 64 \\ w = 7 \ , \, h = 2 \ , \, x = 3 \ , \, y = 8 \ , \, v = 14 \end{array}$$

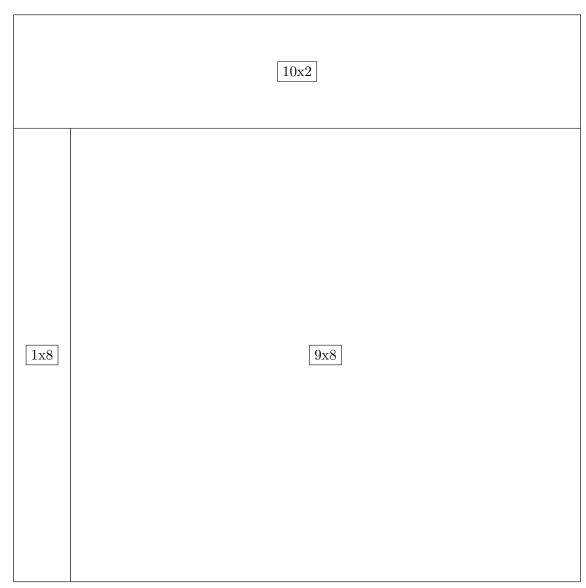
3x1	7x1
3x1	
3x8	7x9

$$\begin{array}{c} w = 7 \;, \; h = 9 \;, \; x = 3 \;, \; y = 0 \;, \; v = 63 \\ w = 3 \;, \; h = 8 \;, \; x = 0 \;, \; y = 0 \;, \; v = 24 \\ \end{array}$$

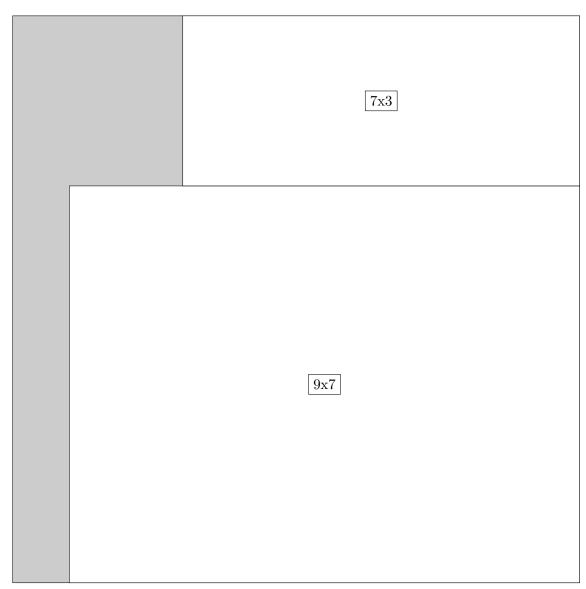
$$w = 3$$
, $h = 0$, $x = 0$, $y = 0$, $v = 2$
 $w = 3$, $h = 1$, $x = 0$, $y = 8$, $v = 3$

$$w = 7$$
, $h = 1$, $x = 3$, $y = 9$, $v = 7$

$$w = 3$$
, $h = 1$, $x = 0$, $y = 9$, $v = 3$



$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 1 \ , \ y = 0 \ , \ v = 72 \\ w = 1 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 8 \\ w = 10 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 20 \end{array}$$



[3x2]	6x2
[4x8]	6x8

 \mathbf{w} =6 , \mathbf{h} =8 , \mathbf{x} =4 , \mathbf{y} =0 , \mathbf{v} =48

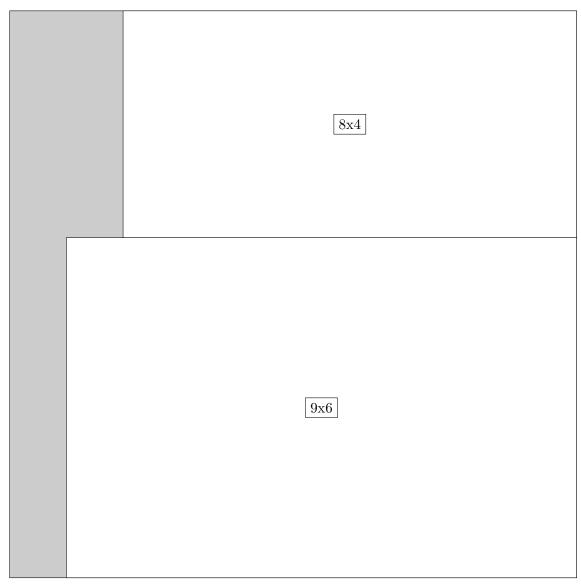
 $\le=4$, h =8 , x =0 , y =0 , v =32

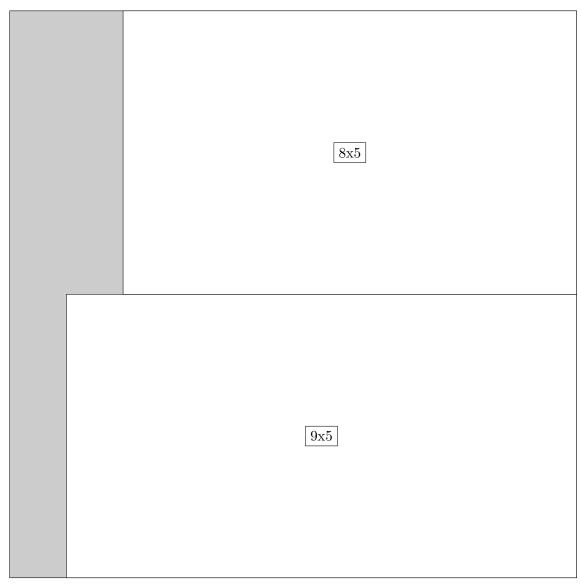
 \mathbf{w} =6 , h =2 , x =4 , y =8 , v =12

 \mathbf{w} =3 , h =2 , x =1 , y =8 , v =6

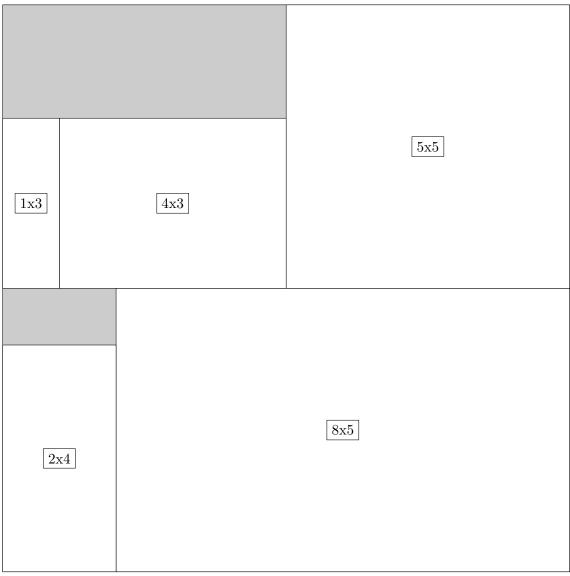
4x9 6x6	4x1	
		6x4
6x6	4x9	
		[6x6]

$$\begin{array}{l} w=6 \ , h=6 \ , x=4 \ , y=0 \ , v=36 \\ w=6 \ , h=4 \ , x=4 \ , y=6 \ , v=24 \\ w=4 \ , h=9 \ , x=0 \ , y=0 \ , v=36 \\ w=4 \ , h=1 \ , x=0 \ , y=9 \ , v=4 \end{array}$$

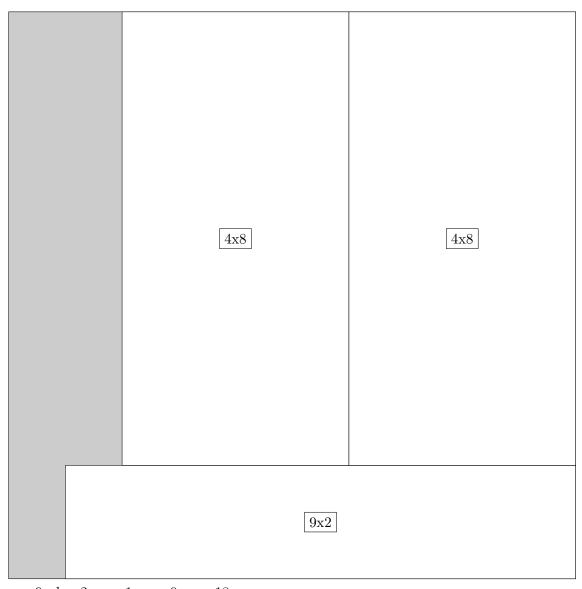




$$\begin{array}{c} w = 9 \ , \ h = 5 \ , \ x = 1 \ , \ y = 0 \ , \ v = 45 \\ w = 8 \ , \ h = 5 \ , \ x = 2 \ , \ y = 5 \ , \ v = 40 \end{array}$$

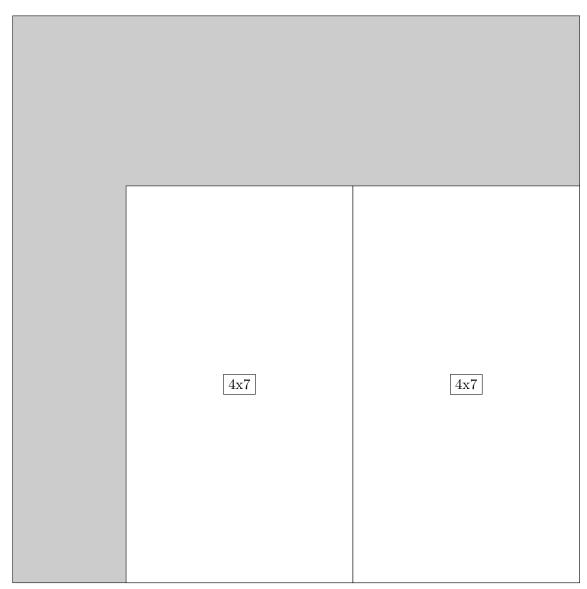


$$\begin{array}{l} w=8 \;,\; h=5 \;,\; x=2 \;,\; y=0 \;,\; v=40 \\ w=2 \;,\; h=4 \;,\; x=0 \;,\; y=0 \;,\; v=8 \\ w=5 \;,\; h=5 \;,\; x=5 \;,\; y=5 \;,\; v=25 \\ w=4 \;,\; h=3 \;,\; x=1 \;,\; y=5 \;,\; v=12 \\ w=1 \;,\; h=3 \;,\; x=0 \;,\; y=5 \;,\; v=3 \end{array}$$



$$\begin{array}{l} w = 9 \ , \ h = 2 \ , \ x = 1 \ , \ y = 0 \ , \ v = 18 \\ w = 4 \ , \ h = 8 \ , \ x = 6 \ , \ y = 2 \ , \ v = 32 \end{array}$$

$$\mathbf{w}$$
 =4 , h =8 , x =2 , y =2 , v =32



 $\begin{array}{c} w = 4 \ , \ h = 7 \ , \ x = 6 \ , \ y = 0 \ , \ v = 28 \\ w = 4 \ , \ h = 7 \ , \ x = 2 \ , \ y = 0 \ , \ v = 28 \end{array}$