$ClassName: \ Class\_01.2bp\text{-}34$ 

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

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> LB: <u>26</u>

LBWithCut:  $\underline{\mathbf{26}}$ NodeCount:  $\underline{\mathbf{0}}$ 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:  $\underline{\mathbf{1}}$ 

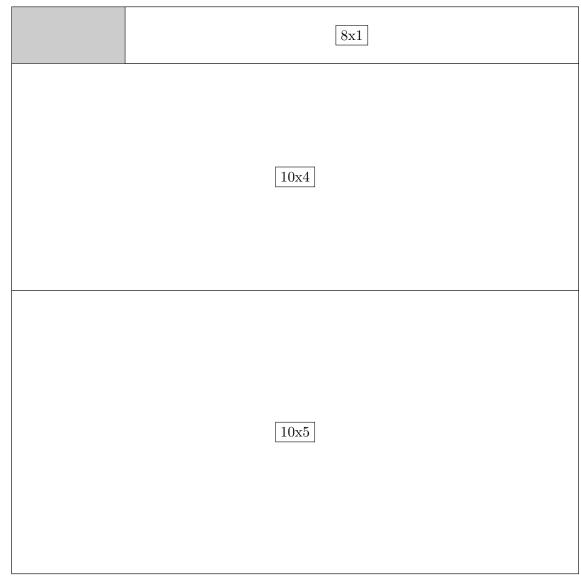
isOpt: **true** 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.062 sTotalTime: 0.187 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



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

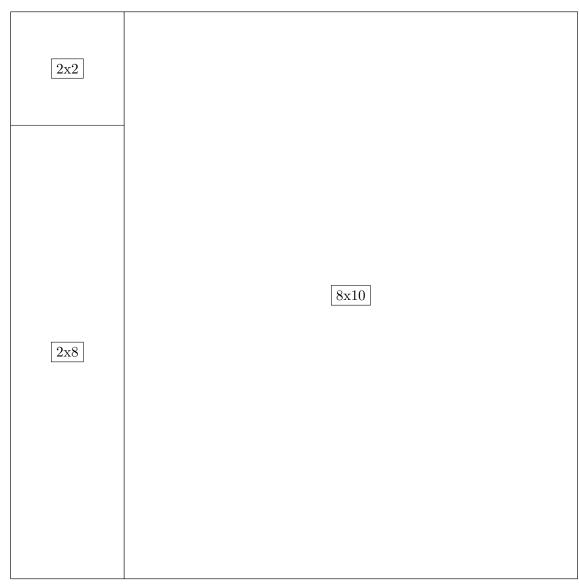
| 2x4 | 3x4 |      |
|-----|-----|------|
|     | 5x6 | 5x10 |

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

 $\mathbf{w}$  =5 , h =6 , x =0 , y =0 , v =30

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

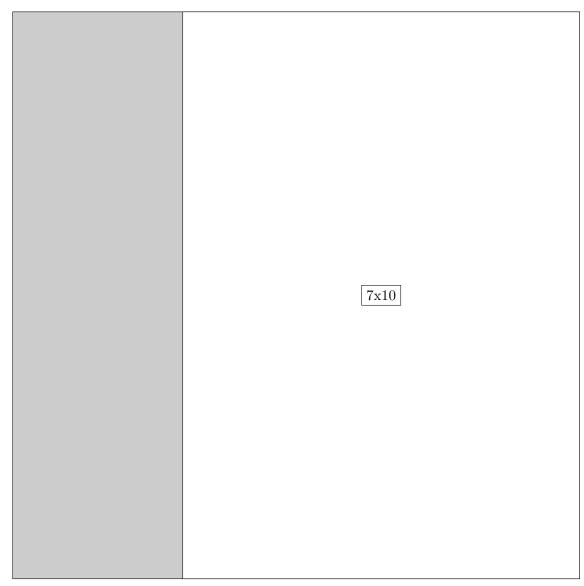
 $\mathbf{w}$  =2 , h =4 , x =0 , y =6 , v =8



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

$$\mathbf{w}$$
 =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

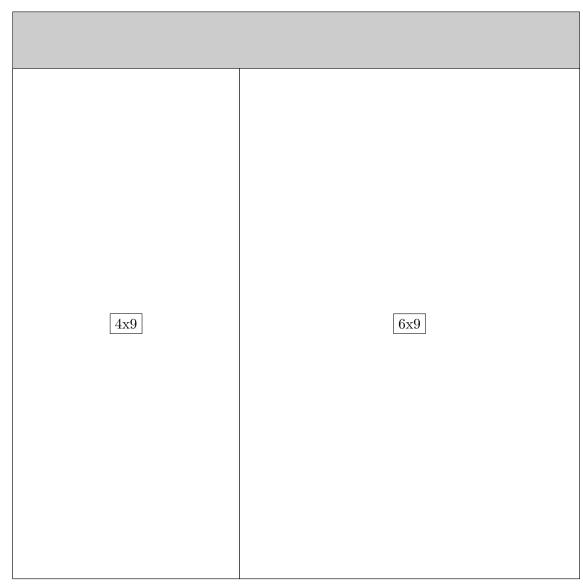
| 3x3 | 4x3 |      |
|-----|-----|------|
|     |     | 1x10 |
| 9x7 |     |      |

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

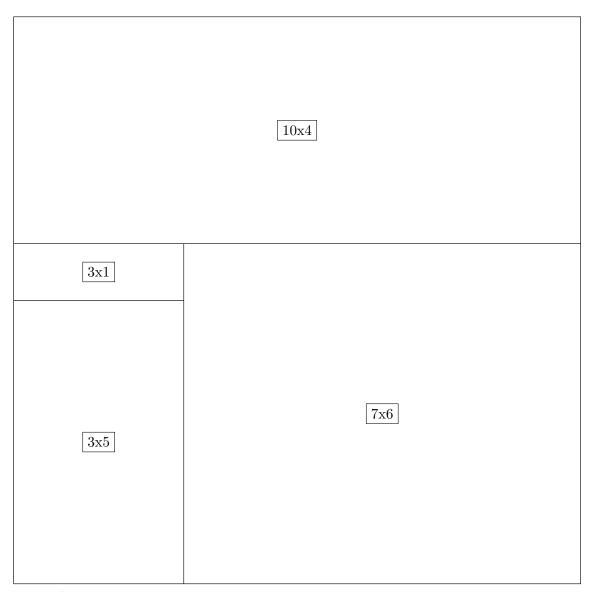
$$\mathbf{w}$$
 =9 , h =7 , x =0 , y =0 , v =63

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

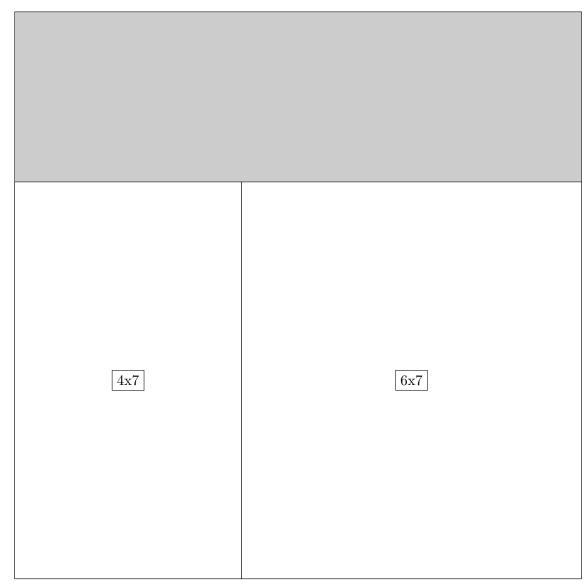
$$\mathbf{w}$$
 =3 , h =3 , x =2 , y =7 , v =9



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



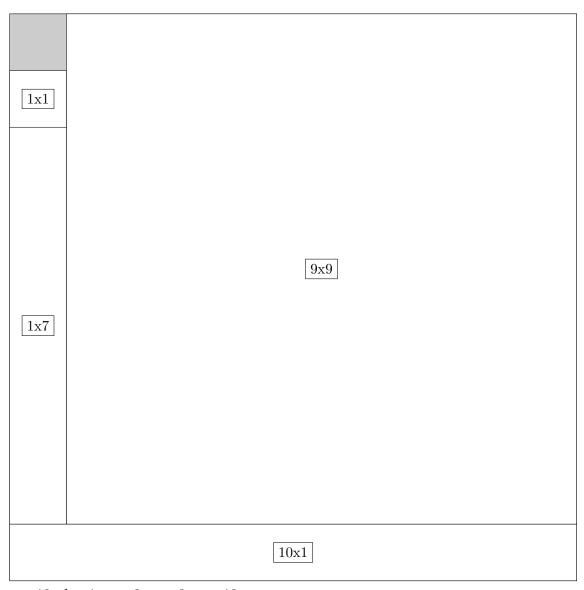
$$\begin{array}{l} w=7\ ,\ h=6\ ,\ x=3\ ,\ y=0\ ,\ v=42\\ w=3\ ,\ h=5\ ,\ x=0\ ,\ y=0\ ,\ v=15\\ w=3\ ,\ h=1\ ,\ x=0\ ,\ y=5\ ,\ v=3\\ w=10\ ,\ h=4\ ,\ x=0\ ,\ y=6\ ,\ v=40 \end{array}$$



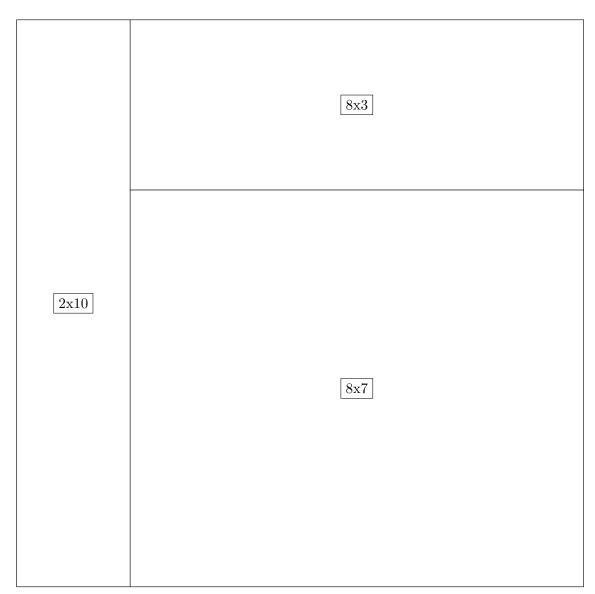
w =6, h =7, x =4, y =0, v =42 w =4, h =7, x =0, y =0, v =28

|     | 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 |

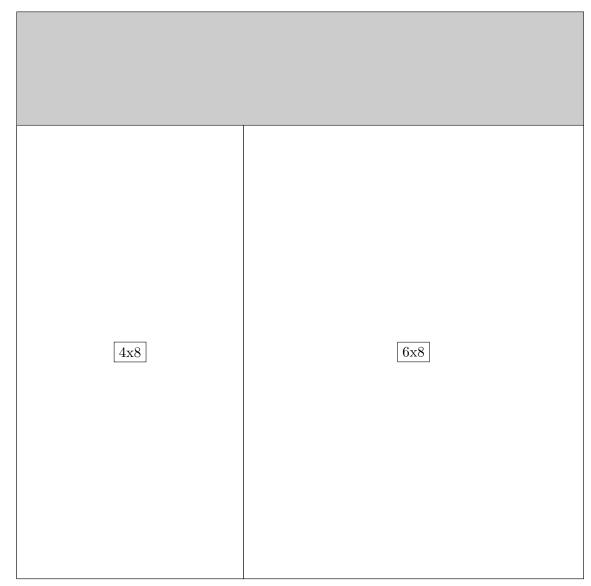
$$\begin{array}{l} w=7\ ,\, h=6\ ,\, x=3\ ,\, y=0\ ,\, v=42\\ w=7\ ,\, h=4\ ,\, x=3\ ,\, y=6\ ,\, v=28\\ w=3\ ,\, h=5\ ,\, x=0\ ,\, y=0\ ,\, v=15\\ w=3\ ,\, h=5\ ,\, x=0\ ,\, y=5\ ,\, v=15 \end{array}$$

| 7x2 |      |
|-----|------|
|     |      |
| 8x8 | 2x10 |
|     |      |
|     |      |

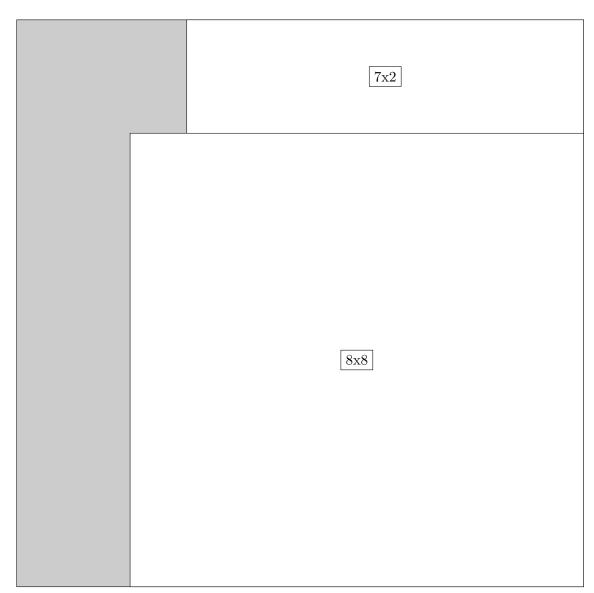
w=2 , h=10 , x=8 , y=0 , v=20

 $\mathbf{w}$  =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



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

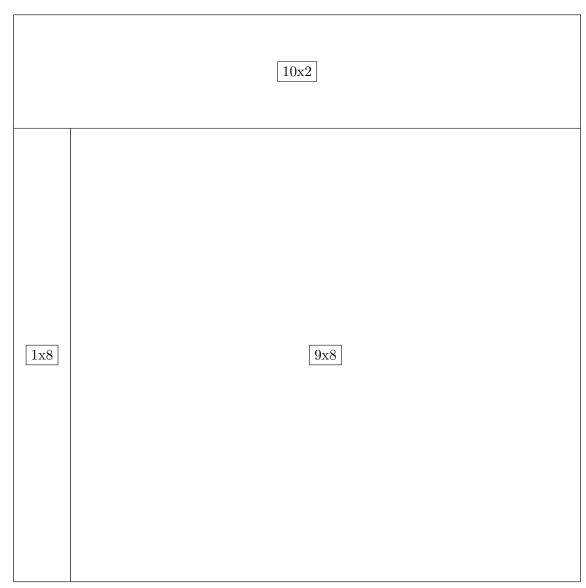
| 3x1 | 7x1 |
|-----|-----|
| 3x1 |     |
| 3x8 | 7x9 |

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

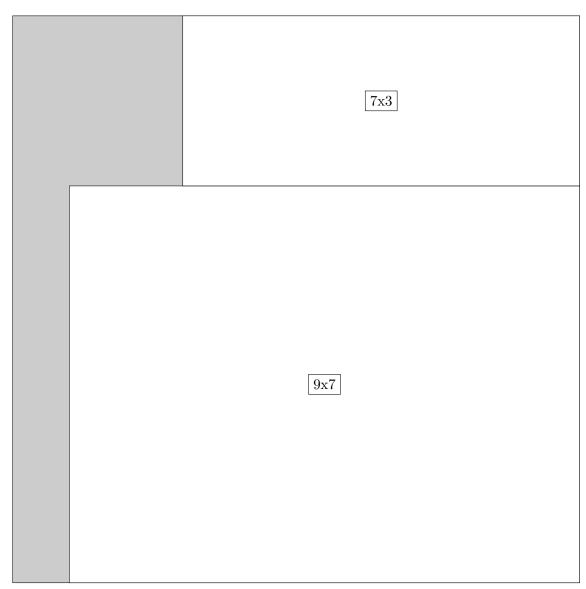
$$w = 3$$
,  $h = 0$ ,  $x = 0$ ,  $y = 0$ ,  $v = 2$   
 $w = 3$ ,  $h = 1$ ,  $x = 0$ ,  $y = 8$ ,  $v = 3$ 

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

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



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



| [3x2] | 6x2 |
|-------|-----|
|       |     |
| [4x8] | 6x8 |
|       |     |

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

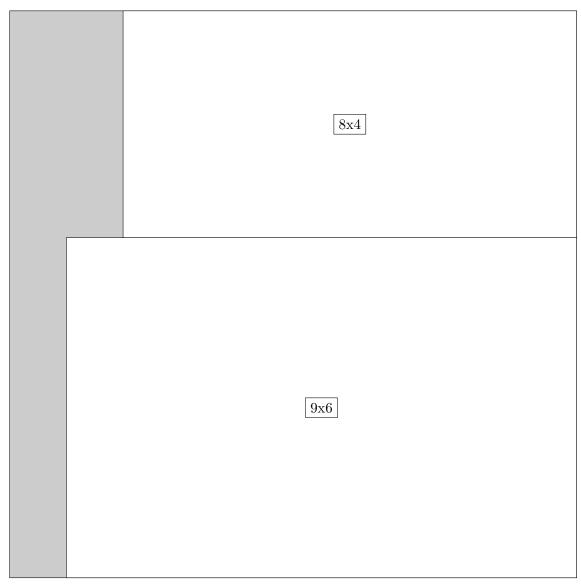
 $\le=4$  , h =8 , x =0 , y =0 , v =32

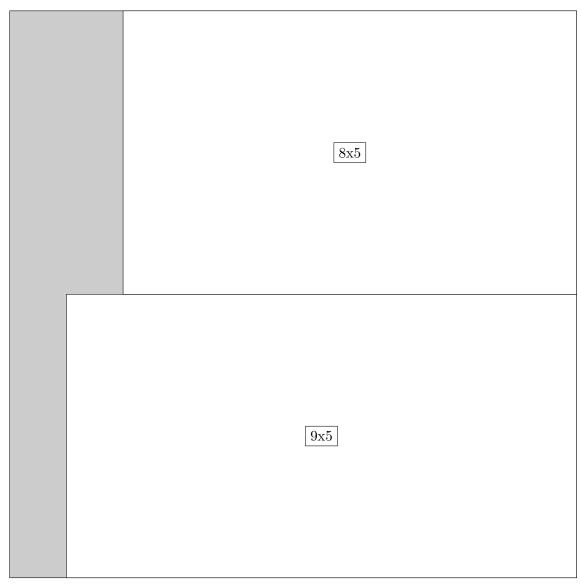
 $\mathbf{w}$  =6 , h =2 , x =4 , y =8 , v =12

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

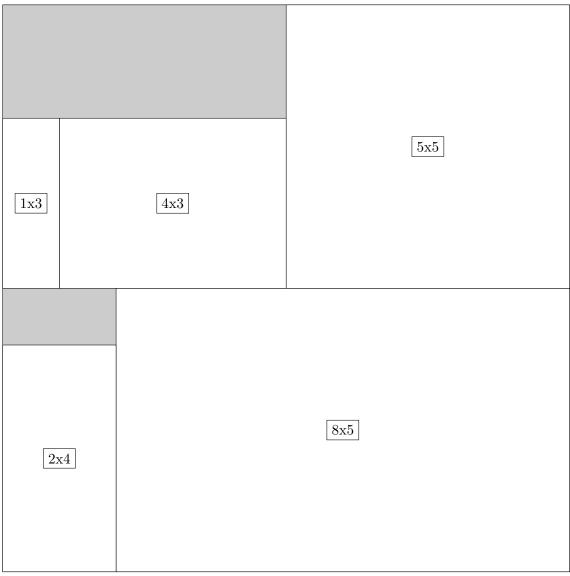
| 4x9 6x6 | 4x1 |       |
|---------|-----|-------|
|         |     | 6x4   |
| 6x6     | 4x9 |       |
|         |     | [6x6] |

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

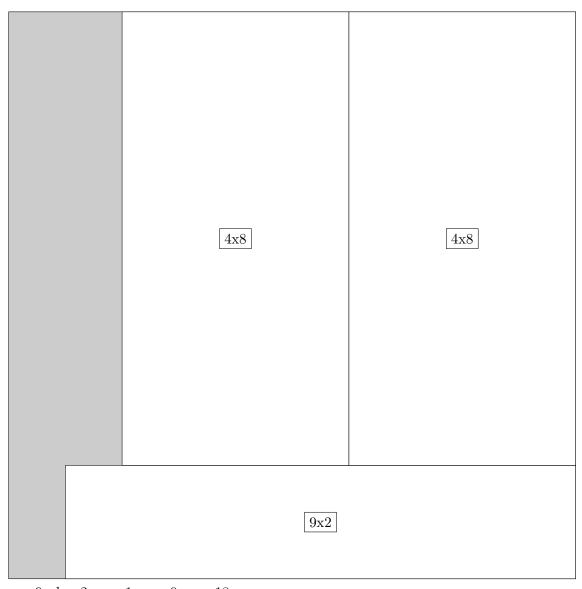




$$\begin{array}{c} w = 9 \ , \ h = 5 \ , \ x = 1 \ , \ y = 0 \ , \ v = 45 \\ w = 8 \ , \ h = 5 \ , \ x = 2 \ , \ y = 5 \ , \ v = 40 \end{array}$$

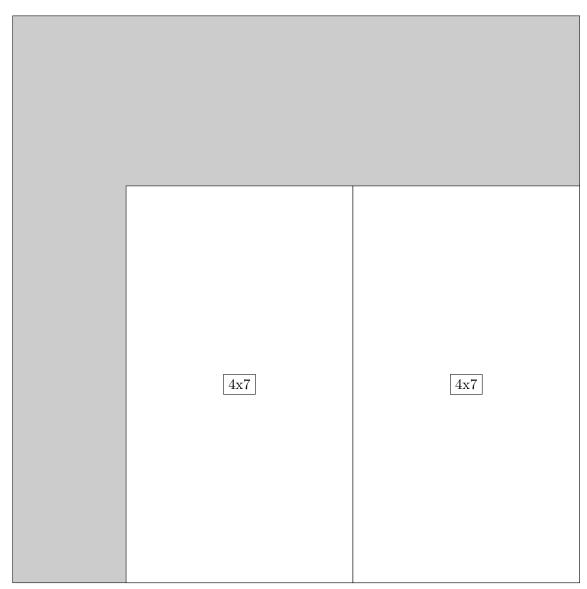


$$\begin{array}{l} w=8 \;,\; h=5 \;,\; x=2 \;,\; y=0 \;,\; v=40 \\ w=2 \;,\; h=4 \;,\; x=0 \;,\; y=0 \;,\; v=8 \\ w=5 \;,\; h=5 \;,\; x=5 \;,\; y=5 \;,\; v=25 \\ w=4 \;,\; h=3 \;,\; x=1 \;,\; y=5 \;,\; v=12 \\ w=1 \;,\; h=3 \;,\; x=0 \;,\; y=5 \;,\; v=3 \end{array}$$



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

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



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