$ClassName: \ Class_01.2bp\text{-}48$

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

TypeNum: <u>67</u> Num: <u>100</u> OutS: <u>3100</u> InS: <u>2986</u> Rate: <u>0.963</u> UB: <u>31</u>

UB: <u>31</u> LB0: <u>31</u> LB: <u>31</u>

LBWithCut: $\underline{\bf 31}$ NodeCut: $\underline{\bf 0}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{31}}$ 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: $\underline{600.000 \text{ s}}$

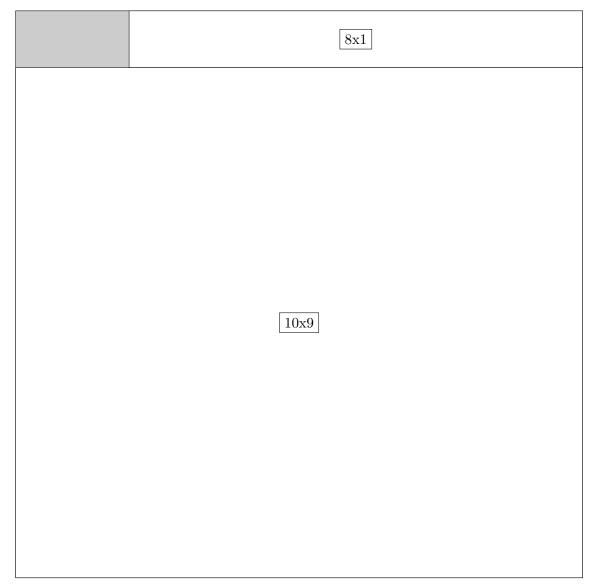
TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.344 s



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

5x2	5x2
	x8

 $\begin{array}{l} w = & 10 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 80 \\ w = & 5 \ , \ h = & 2 \ , \ x = & 5 \ , \ y = & 8 \ , \ v = & 10 \\ w = & 5 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 8 \ , \ v = & 10 \end{array}$



2x1	
2x4	8x5
2x5	8x5

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

w = 2, h = 1, x = 0, y = 9, v = 2

	6x3
4x1	
	$9\mathrm{x}7$

$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 1 \ , \ y = 0 \ , \ v = 63 \\ w = 6 \ , \ h = 3 \ , \ x = 4 \ , \ y = 7 \ , \ v = 18 \\ w = 4 \ , \ h = 1 \ , \ x = 0 \ , \ y = 7 \ , \ v = 4 \end{array}$$

	3x5	$6\mathrm{x}5$
1x5	3x5	6x5

 $\begin{array}{c} w = 6 \ , \, h = 5 \ , \, x = 4 \ , \, y = 0 \ , \, v = 30 \\ w = 3 \ , \, h = 5 \ , \, x = 1 \ , \, y = 0 \ , \, v = 15 \end{array}$

 \mathbf{w} =1 , h =5 , x =0 , y =0 , v =5

 $\mathbf{w}=\!6$, $\mathbf{h}=\!\!5$, $\mathbf{x}=\!\!4$, $\mathbf{y}=\!\!5$, $\mathbf{v}=\!\!30$

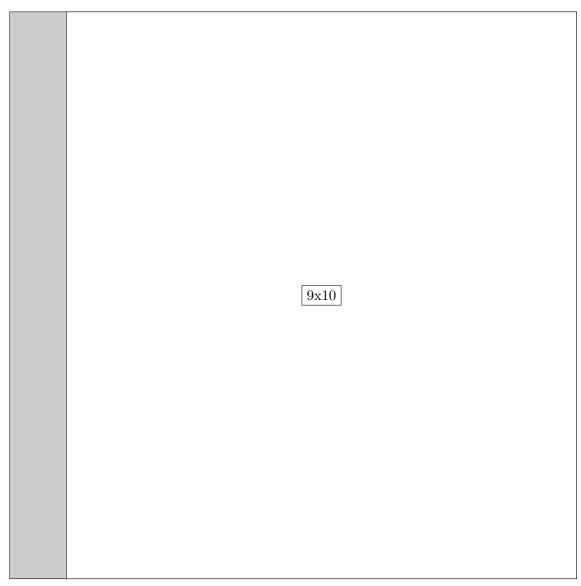
 $\mathbf{w}=\!3$, $\mathbf{h}=\!\!5$, $\mathbf{x}=\!\!1$, $\mathbf{y}=\!\!5$, $\mathbf{v}=\!\!15$

	[5x4]	$5\mathrm{x}4$
		6x2
2x6	2x6	6x4

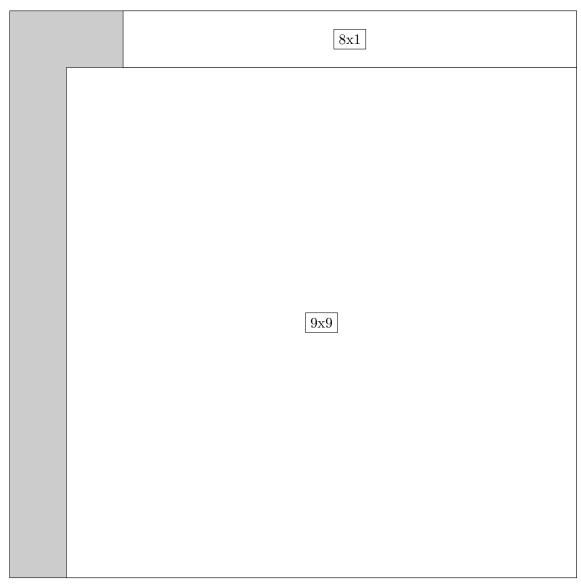
 $\begin{array}{l} w=6\ ,\, h=4\ ,\, x=4\ ,\, y=0\ ,\, v=24\\ w=6\ ,\, h=2\ ,\, x=4\ ,\, y=4\ ,\, v=12\\ w=2\ ,\, h=6\ ,\, x=2\ ,\, y=0\ ,\, v=12\\ w=2\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=12\\ w=5\ ,\, h=4\ ,\, x=5\ ,\, y=6\ ,\, v=20\\ w=5\ ,\, h=4\ ,\, x=0\ ,\, y=6\ ,\, v=20\\ \end{array}$

9x2
9x2
10x6

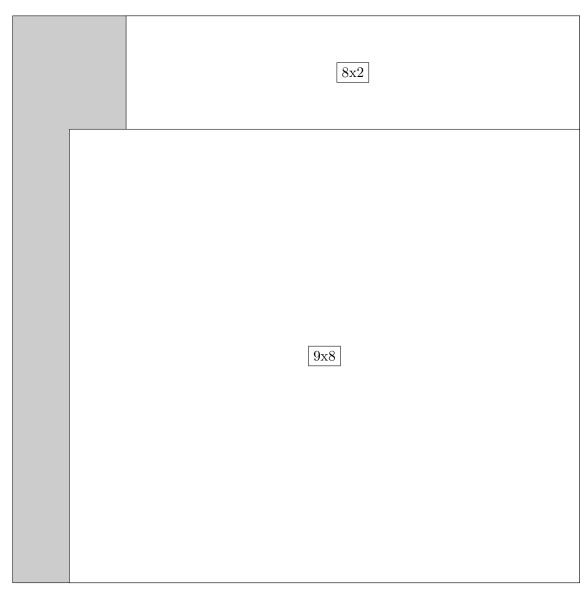
$$\begin{array}{l} w = \! 10 \; , \; h = \! 6 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 60 \\ w = \! 9 \; , \; h = \! 2 \; , \; x = \! 1 \; , \; y = \! 6 \; , \; v = \! 18 \\ w = \! 1 \; , \; h = \! 2 \; , \; x = \! 0 \; , \; y = \! 6 \; , \; v = \! 2 \\ w = \! 9 \; , \; h = \! 2 \; , \; x = \! 1 \; , \; y = \! 8 \; , \; v = \! 18 \end{array}$$



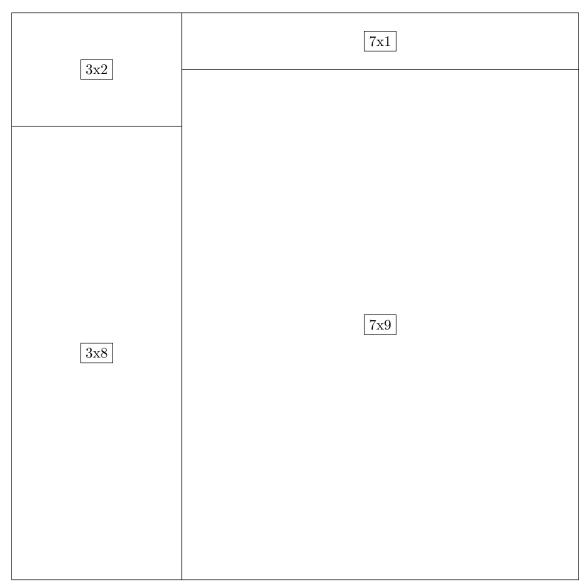
 $\le =9$, h =10 , x =1 , y =0 , v =90



 $\begin{array}{l} w=6 \ , \ h=3 \ , \ x=4 \ , \ y=0 \ , \ v=18 \\ w=4 \ , \ h=3 \ , \ x=0 \ , \ y=0 \ , \ v=12 \\ w=6 \ , \ h=7 \ , \ x=4 \ , \ y=3 \ , \ v=42 \\ w=3 \ , \ h=6 \ , \ x=1 \ , \ y=3 \ , \ v=18 \\ w=1 \ , \ h=6 \ , \ x=0 \ , \ y=3 \ , \ v=6 \end{array}$



 $\begin{array}{c} w = 9 \ , \ h = 8 \ , \ x = 1 \ , \ y = 0 \ , \ v = 72 \\ w = 8 \ , \ h = 2 \ , \ x = 2 \ , \ y = 8 \ , \ v = 16 \end{array}$

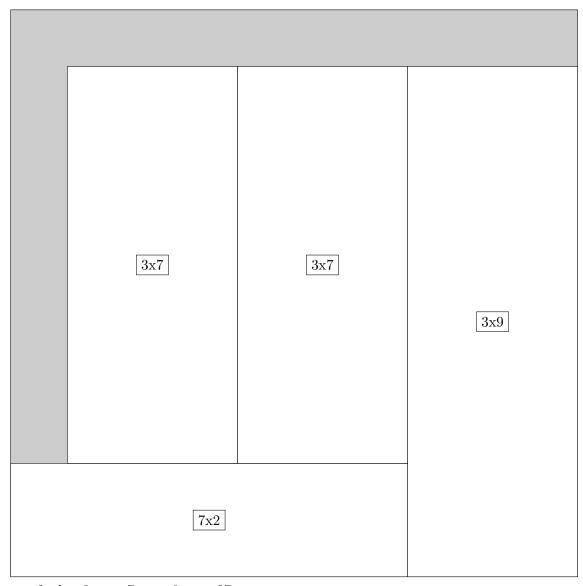


$$\mathbf{w}$$
 =7 , \mathbf{h} =9 , \mathbf{x} =3 , \mathbf{y} =0 , \mathbf{v} =63

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

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

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

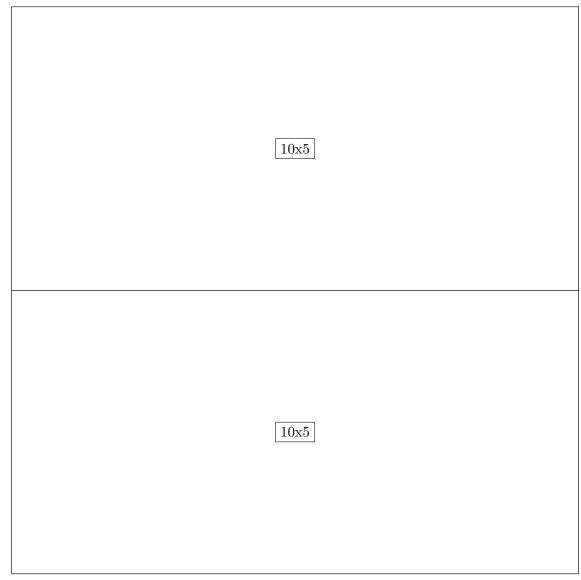


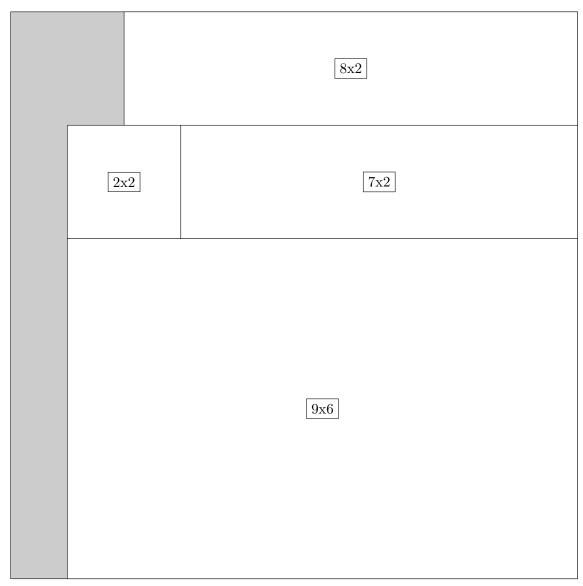
$$\mathbf{w}$$
 =3 , h =9 , x =7 , y =0 , v =27

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

$$w = 3$$
 , $h = 7$, $x = 4$, $y = 2$, $v = 21$

$$\mathbf{w}$$
 =3 , h =7 , x =1 , y =2 , v =21



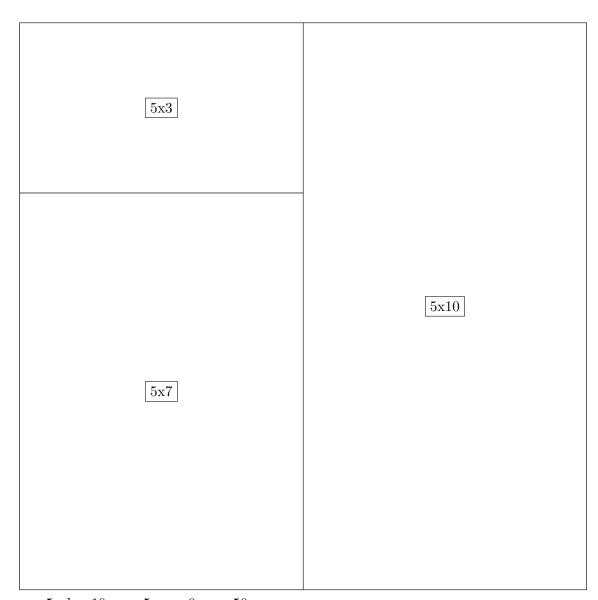


$$w = 9$$
, $h = 6$, $x = 1$, $y = 0$, $v = 54$

$$\mathbf{w}$$
 =7 , h =2 , x =3 , y =6 , v =14

$$w = 2$$
 , $h = 2$, $x = 1$, $y = 6$, $v = 4$

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



$$\begin{array}{l} w = \! 5 \ , \ h = \! 10 \ , \ x = \! 5 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 5 \ , \ h = \! 7 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 35 \end{array}$$

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

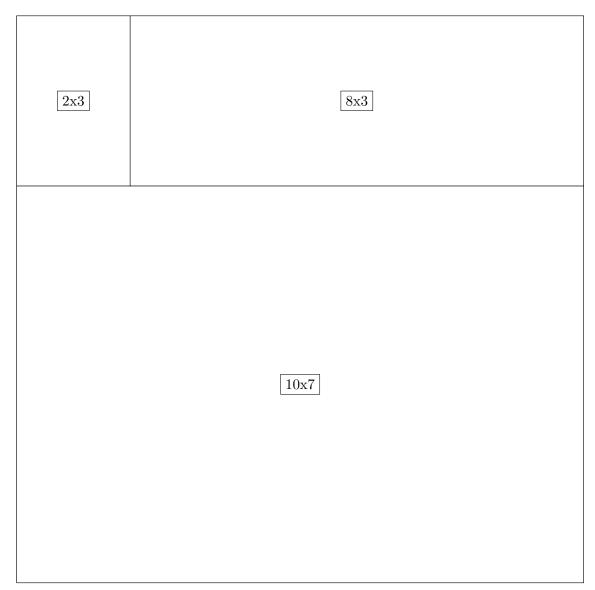
	9x2
	6x1
4x8	6x7

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

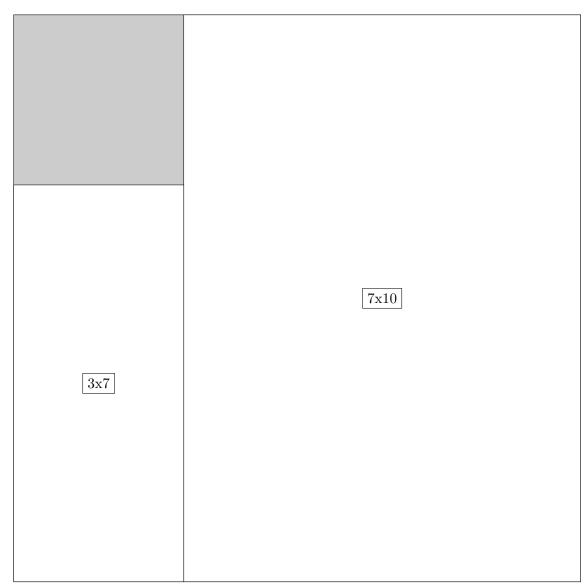
$$\mathbf{w}$$
 =6 , h =1 , x =4 , y =7 , v =6

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

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



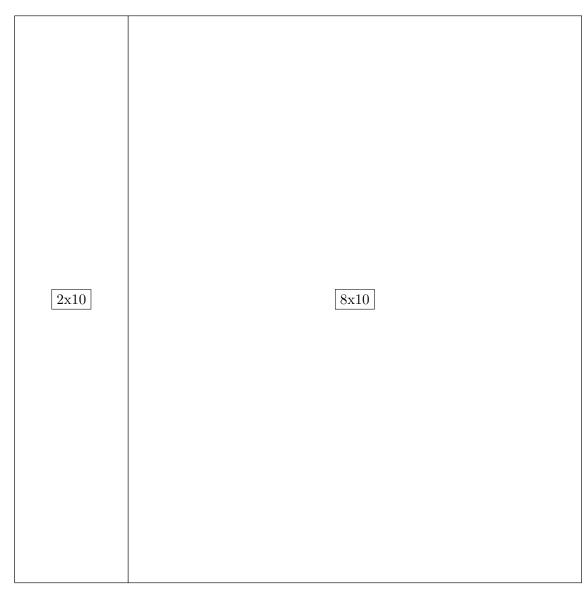
$$\begin{array}{l} w = & 10 \ , \ h = & 7 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 70 \\ w = & 8 \ , \ h = & 3 \ , \ x = & 2 \ , \ y = & 7 \ , \ v = & 24 \\ w = & 2 \ , \ h = & 3 \ , \ x = & 0 \ , \ y = & 7 \ , \ v = & 6 \end{array}$$



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

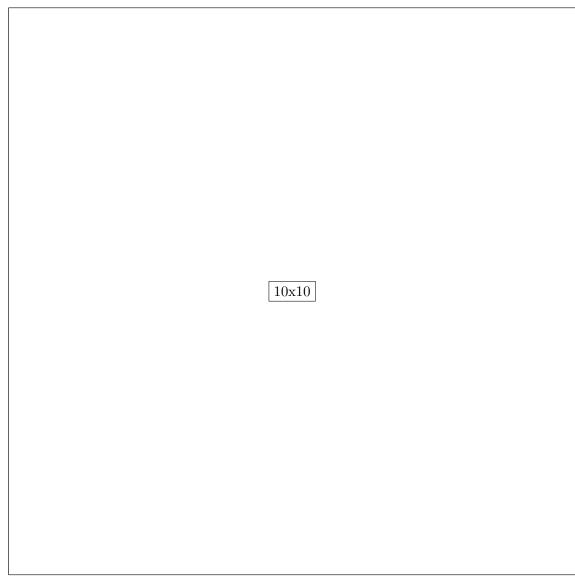
3x4	$7\mathrm{x}4$
4x6	6x6

$$\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=4 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=24 \\ w=7 \ , \ h=4 \ , \ x=3 \ , \ y=6 \ , \ v=28 \\ w=3 \ , \ h=4 \ , \ x=0 \ , \ y=6 \ , \ v=12 \end{array}$$



1x1		
1x3	3x4	6x4
	4x6	6x6

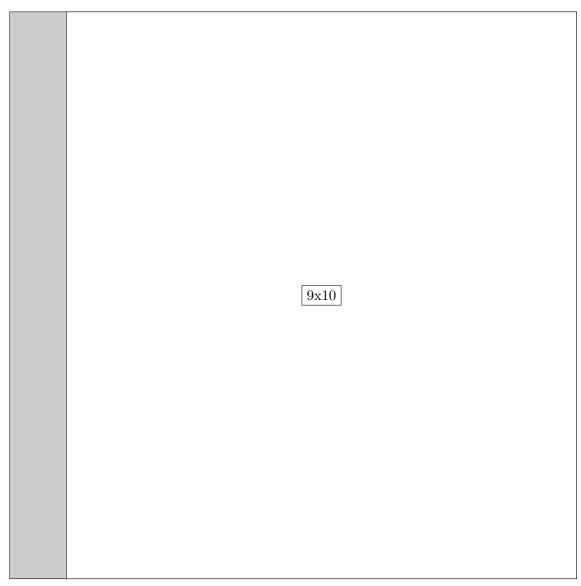
$$\begin{array}{l} w=6 \;,\, h=6 \;,\, x=4 \;,\, y=0 \;,\, v=36 \\ w=4 \;,\, h=6 \;,\, x=0 \;,\, y=0 \;,\, v=24 \\ w=6 \;,\, h=4 \;,\, x=4 \;,\, y=6 \;,\, v=24 \\ w=3 \;,\, h=4 \;,\, x=1 \;,\, y=6 \;,\, v=12 \\ w=1 \;,\, h=3 \;,\, x=0 \;,\, y=6 \;,\, v=3 \\ w=1 \;,\, h=1 \;,\, x=0 \;,\, y=9 \;,\, v=1 \end{array}$$



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

5x2	5x4
5x8	
	5x6

$$\begin{array}{l} w = 5 \ , \, h = 6 \ , \, x = 5 \ , \, y = 0 \ , \, v = 30 \\ w = 5 \ , \, h = 4 \ , \, x = 5 \ , \, y = 6 \ , \, v = 20 \\ w = 5 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = 40 \\ w = 5 \ , \, h = 2 \ , \, x = 0 \ , \, y = 8 \ , \, v = 10 \end{array}$$



 $\le =9$, h =10 , x =1 , y =0 , v =90



	8x1	
2x3		
2x6	2x9	6x9

 $\begin{array}{l} w=6\ ,\, h=9\ ,\, x=4\ ,\, y=0\ ,\, v=54\\ w=2\ ,\, h=9\ ,\, x=2\ ,\, y=0\ ,\, v=18\\ w=2\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=12\\ w=2\ ,\, h=3\ ,\, x=0\ ,\, y=6\ ,\, v=6 \end{array}$

w = 8, h = 1, x = 2, y = 9, v = 8

6x9	

w = 4, h = 10, x = 6, y = 0, v = 40

 \mathbf{w} =6 , h =9 , x =0 , y =0 , v = 54

 $w=\!5$, $h=\!1$, $x=\!1$, $y=\!9$, $v=\!5$

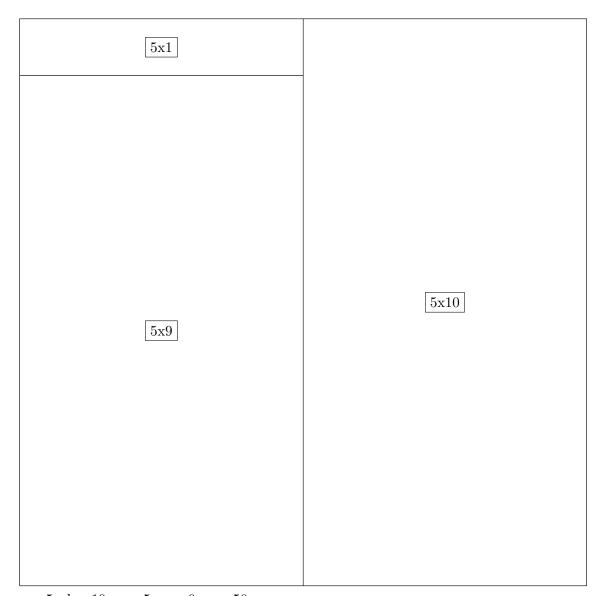
2x2			
2x8	3x10	5x10	

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

 ≤ 3 , h =10 , x =2 , y =0 , v =30

w = 2 , h = 8 , x = 0 , y = 0 , v = 16

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



 $\begin{array}{l} w = \! 5 \ , \ h = \! 10 \ , \ x = \! 5 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 5 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 45 \end{array}$

 \mathbf{w} =5 , h =1 , x =0 , y =9 , v =5