${\bf ClassName:}~{\bf Class_01.2bp\text{-}39}$

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

TypeNum: <u>58</u> Num: <u>80</u> OutS: <u>2600</u> InS: <u>2426</u> Rate: <u>0.933</u> UB: <u>26</u> LB0: <u>26</u> LB: <u>26</u>

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

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

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.078 \ s} \\ {\rm TotalTime:} \ \underline{0.156 \ s} \\ \end{array}$

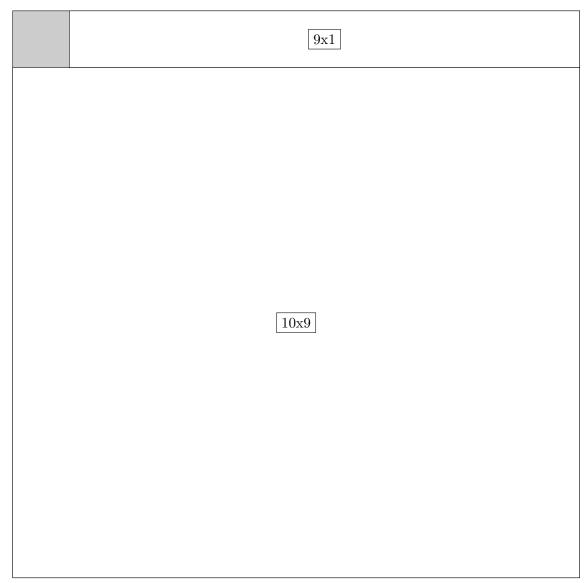


 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100



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





8x1	
9x9	1x9

w = 9, h = 9, x = 0, y = 0, v = 81

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

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

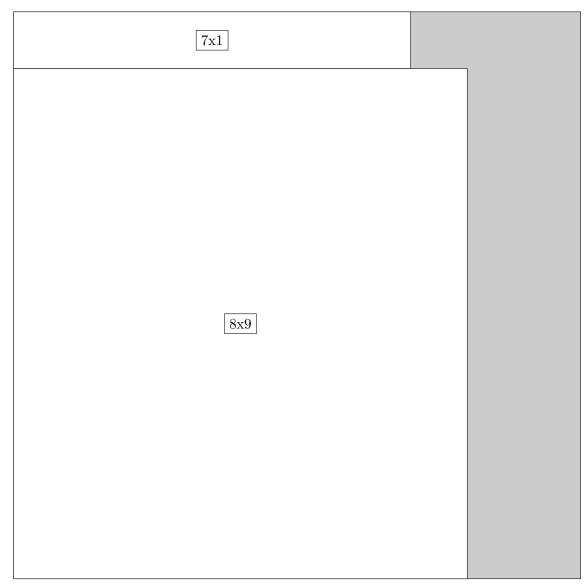
	2x2
$oxed{8\mathrm{x}10}$	2x3
	[2x4]

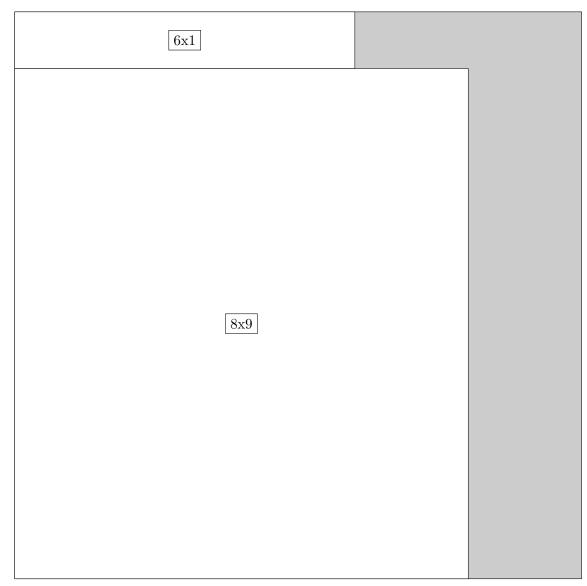
$$\le =8$$
 , h =10 , x =0 , y =0 , v =80

$$\le =2$$
 , h =4 , x =8 , y =0 , v =8

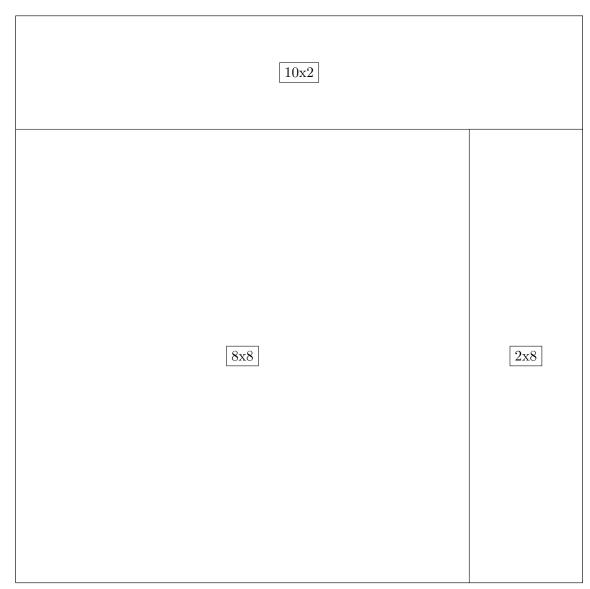
$$\mathbf{w}$$
 =2 , h =3 , x =8 , y =4 , v =6

$$\mathbf{w}$$
 =2 , h =2 , x =8 , y =7 , v =4

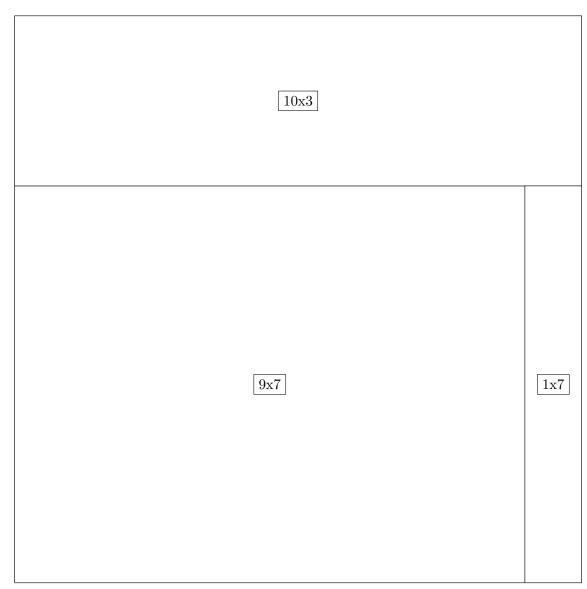




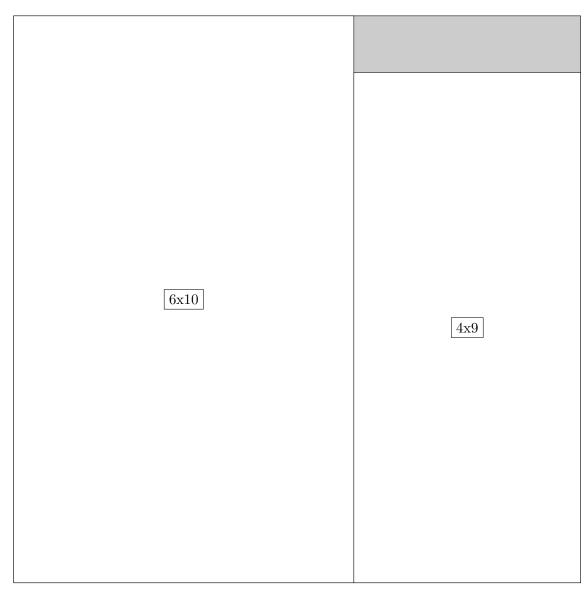




 $\begin{array}{l} w = 8 \;,\; h = 8 \;,\; x = 0 \;,\; y = 0 \;,\; v = 64 \\ w = 10 \;,\; h = 2 \;,\; x = 0 \;,\; y = 8 \;,\; v = 20 \\ w = 2 \;,\; h = 8 \;,\; x = 8 \;,\; y = 0 \;,\; v = 16 \end{array}$



$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 30 \\ w = 1 \ , \ h = 7 \ , \ x = 9 \ , \ y = 0 \ , \ v = 7 \end{array}$$



w =6, h =10, x =0, y =0, v =60 w =4, h =9, x =6, y =0, v =36

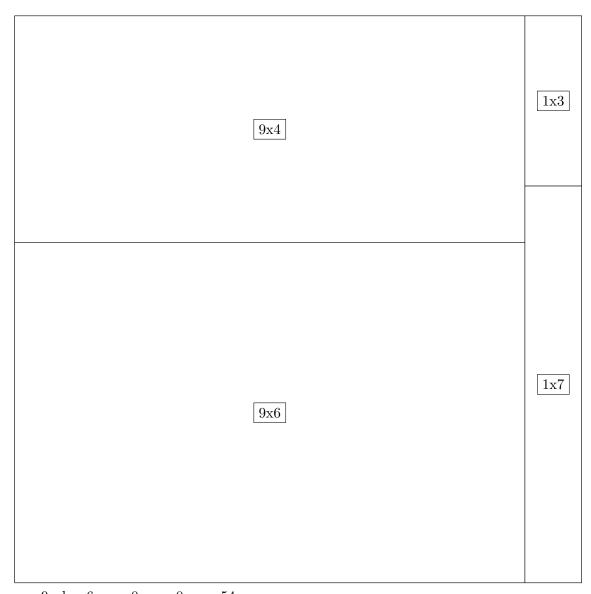
5x3		1x3	1x3	
	8x7			

$$\mathbf{w} = 8 \text{ , h} = 7 \text{ , x} = 0 \text{ , y} = 0 \text{ , v} = 56$$

$$\mathbf{w}$$
 =5 , h =3 , x =0 , y =7 , v =
15

$$\mathbf{w}$$
 =1 , h =3 , x =5 , y =7 , v =3

$$\mathbf{w}$$
 =1 , h =3 , x =6 , y =7 , v =3



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

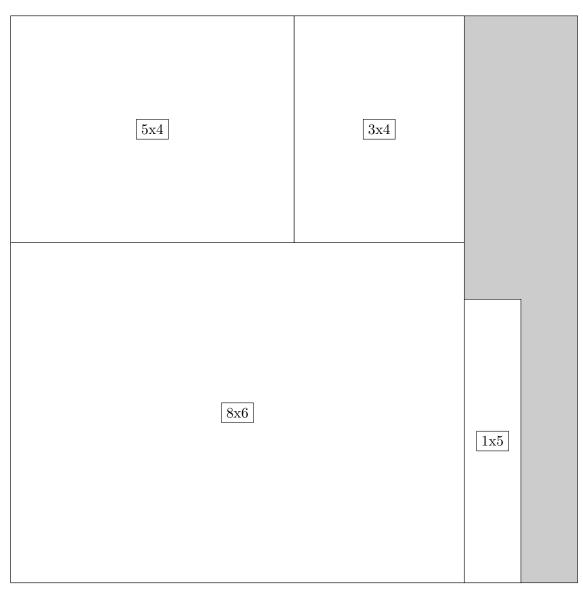
$$\begin{array}{l} w = 1 \ , \ h = 7 \ , \ x = 9 \ , \ y = 0 \ , \ v = 7 \\ w = 1 \ , \ h = 3 \ , \ x = 9 \ , \ y = 7 \ , \ v = 3 \end{array}$$

3x10 7x7	3x3	$\boxed{4\mathrm{x}3}$	
7x7			3x10
		[7x7]	

$$\mathbf{w}$$
 =7 , h =7 , x =0 , y =0 , v =49

$$\le 3$$
 , h =10 , x =7 , y =0 , v =30

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

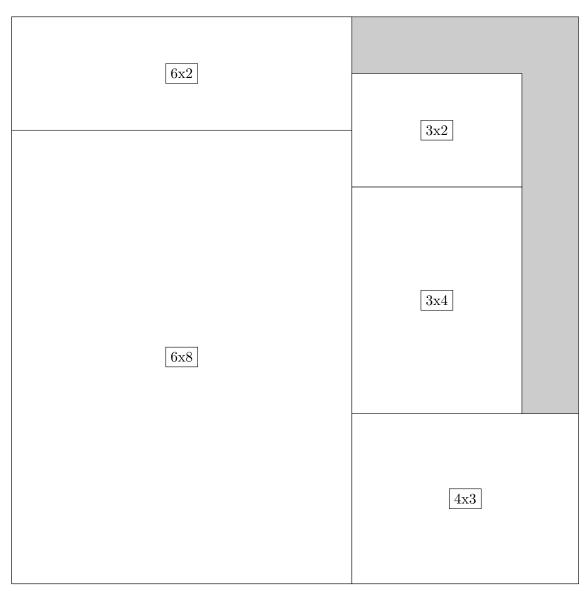


$$w = 8$$
, $h = 6$, $x = 0$, $y = 0$, $v = 48$

$$\mathbf{w}$$
 =5 , h =4 , x =0 , y =6 , v =20

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

$$\mathbf{w}$$
 =1 , h =5 , x =8 , y =0 , v =5



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

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

$$w = 4$$
, $h = 3$, $x = 6$, $y = 0$, $v = 12$

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

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

		3x1
1x4	6x4	
	7x6	3x9

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

$$\le =3$$
 , h =9 , x =7 , y =0 , v =27

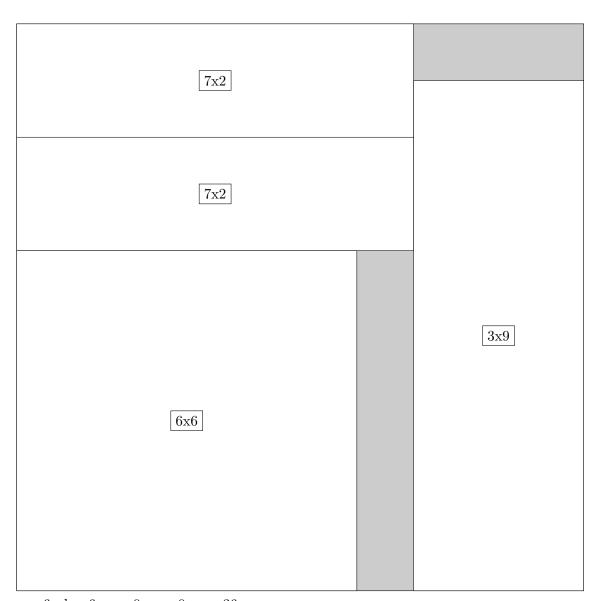
$$\mathbf{w}$$
 =6 , h =4 , x =1 , y =6 , v =24

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

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

	[10x4]	
6x6		4x6

 $\begin{array}{l} w = \! 10 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 6 \ , \ v = \! 40 \\ w = \! 6 \ , \ h = \! 6 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 36 \\ w = \! 4 \ , \ h = \! 6 \ , \ x = \! 6 \ , \ y = \! 0 \ , \ v = \! 24 \end{array}$

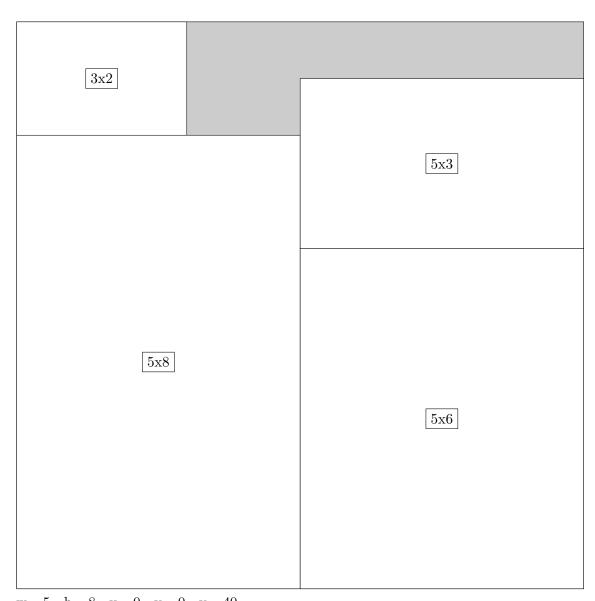


$$\begin{array}{l} w=6\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=36\\ w=3\ ,\, h=9\ ,\, x=7\ ,\, y=0\ ,\, v=27\\ w=7\ ,\, h=2\ ,\, x=0\ ,\, y=6\ ,\, v=14\\ w=7\ ,\, h=2\ ,\, x=0\ ,\, y=8\ ,\, v=14 \end{array}$$

1x5	1x5	$8\mathrm{x}5$	
10x5			

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

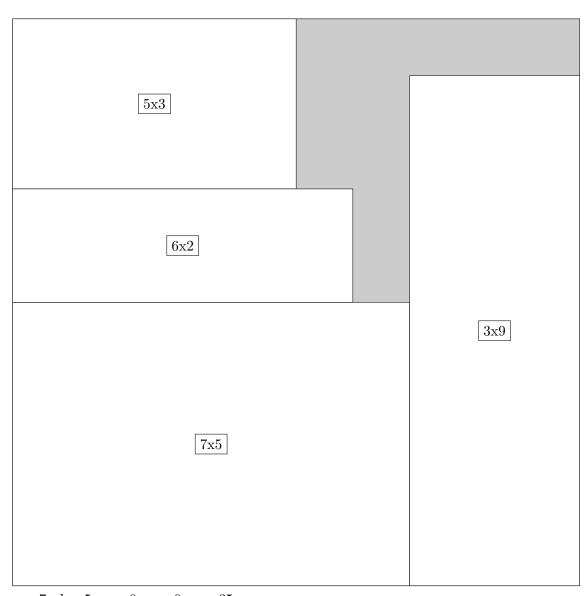
$5\mathrm{x}10$	$5\mathrm{x}10$



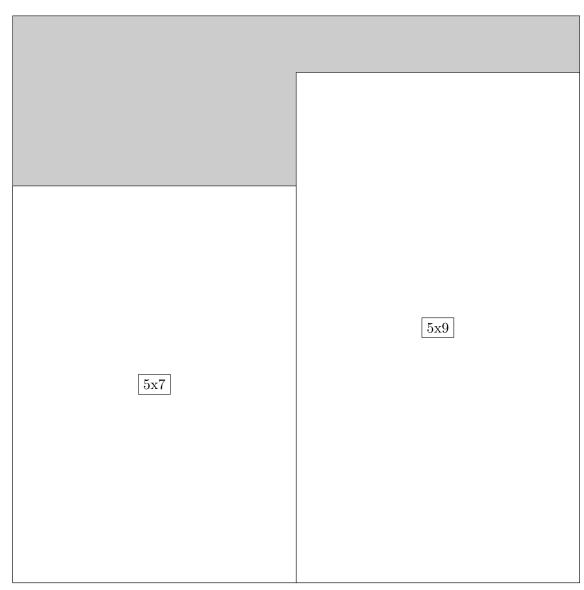
$$\begin{array}{l} w = 5 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = \!\! 40 \\ w = \!\! 5 \ , \ h = \!\! 6 \ , \ x = \!\! 5 \ , \ y = \!\! 0 \ , \ v = \!\! 30 \end{array}$$

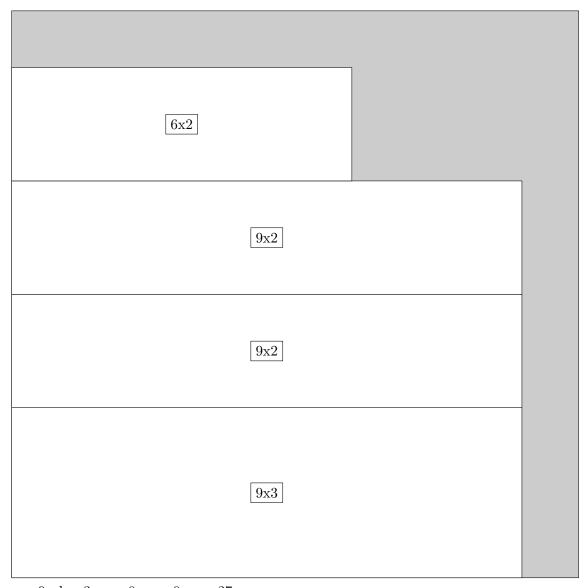
$$\mathbf{w}$$
 =5 , h =3 , x =5 , y =6 , v =
15

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



$$\begin{array}{l} w = 7 \;,\; h = 5 \;,\; x = 0 \;,\; y = 0 \;,\; v = 35 \\ w = 3 \;,\; h = 9 \;,\; x = 7 \;,\; y = 0 \;,\; v = 27 \\ w = 5 \;,\; h = 3 \;,\; x = 0 \;,\; y = 7 \;,\; v = 15 \\ w = 6 \;,\; h = 2 \;,\; x = 0 \;,\; y = 5 \;,\; v = 12 \end{array}$$





$$\begin{array}{l} w=9\ ,\, h=3\ ,\, x=0\ ,\, y=0\ ,\, v=27\\ w=9\ ,\, h=2\ ,\, x=0\ ,\, y=3\ ,\, v=18\\ w=9\ ,\, h=2\ ,\, x=0\ ,\, y=5\ ,\, v=18\\ w=6\ ,\, h=2\ ,\, x=0\ ,\, y=7\ ,\, v=12 \end{array}$$