${\bf ClassName:}~{\bf Class_01.2bp\text{-}21}$

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

TypeNum: 45
Num: 60
OutS: 1900
InS: 1766
Rate: 0.929
UB: 19
LB0: 19

LB: **19**

LBWithCut: $\underline{\mathbf{19}}$ NodeCut: $\underline{\mathbf{0}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{19}}$ 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: 0.078 sTotalTime: 0.157 s



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



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

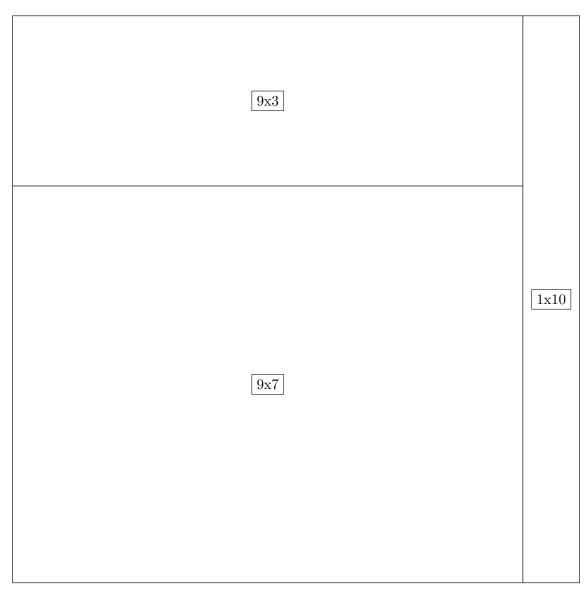


w =9, h =10, x =0, y =0, v =90 w =1, h =10, x =9, y =0, v =10

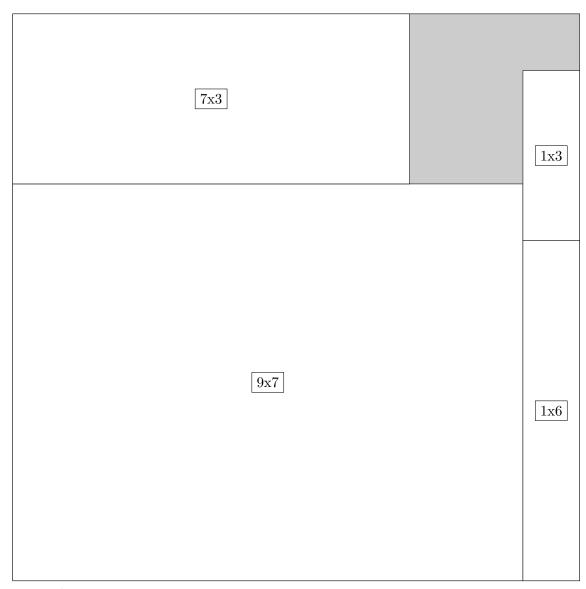


	8x2	
8x8		2x8

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



$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 9 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 27 \\ w = 1 \ , \ h = 10 \ , \ x = 9 \ , \ y = 0 \ , \ v = 10 \end{array}$$



$$\le =9$$
 , h =7 , x =0 , y =0 , v =63

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

$$\mathbf{w}$$
 =1 , h =6 , x =9 , y =0 , v =6

$$\mathbf{w}$$
 =1 , h =3 , x =9 , y =6 , v =3

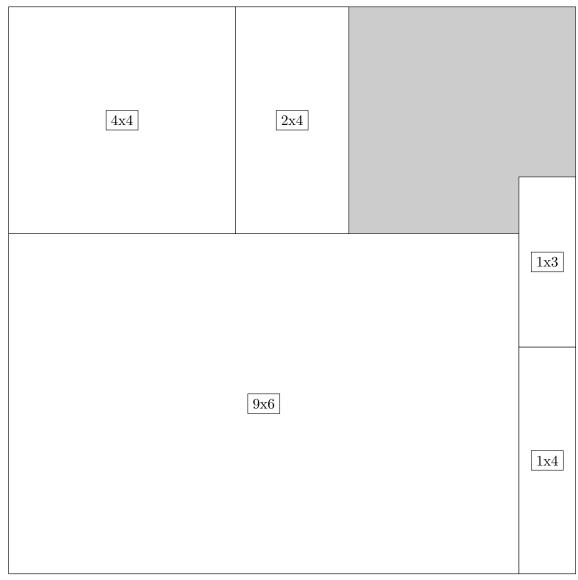
3x2		7x2
	7x8	3x8

$$\begin{array}{l} w = 7 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 56 \\ w = 3 \ , \ h = 8 \ , \ x = 7 \ , \ y = 0 \ , \ v = 24 \\ w = 7 \ , \ h = 2 \ , \ x = 3 \ , \ y = 8 \ , \ v = 14 \end{array}$$

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

	5x1
[5x4]	[5x3]
9x6	1x5

$$\begin{array}{l} w=9 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=54 \\ w=5 \ , \ h=4 \ , \ x=0 \ , \ y=6 \ , \ v=20 \\ w=5 \ , \ h=3 \ , \ x=5 \ , \ y=6 \ , \ v=15 \\ w=5 \ , \ h=1 \ , \ x=5 \ , \ y=9 \ , \ v=5 \\ w=1 \ , \ h=5 \ , \ x=9 \ , \ y=0 \ , \ v=5 \end{array}$$



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

$$\begin{array}{l} w = \! 4 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 6 \ , \ v = \! 16 \\ w = \! 2 \ , \ h = \! 4 \ , \ x = \! 4 \ , \ y = \! 6 \ , \ v = \! 8 \end{array}$$

$$w = 1$$
, $h = 4$, $x = 9$, $y = 0$, $v = 4$

$$w = 1, h = 4, x = 9, y = 0, v = 4$$

$$w = 1$$
, $h = 3$, $x = 9$, $y = 4$, $v = 3$

8x4	
	2x9
8x6	

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

$$w = 2$$
, $h = 9$, $x = 8$, $y = 0$, $v = 18$

6x8	4x8	
O.C.		

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

10x3	
7x1	
7x6	[3x7]

$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 30 \\ w = 3 \ , \ h = 7 \ , \ x = 7 \ , \ y = 0 \ , \ v = 21 \end{array}$$

w = 7, h = 1, x = 0, y = 6, v = 7

	62	x1
	10x3	
		3x3
7x6		3x3

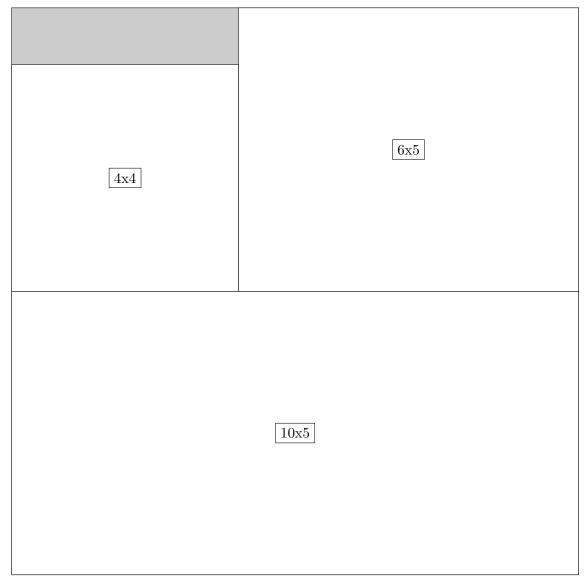
$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 6 \ , \ v = 30 \end{array}$$

$$w = 3$$
, $h = 3$, $x = 7$, $y = 0$, $v = 9$

$$\mathbf{w}$$
 =6 , h =1 , x =4 , y =9 , v =6

10x3	
6x7	4x7

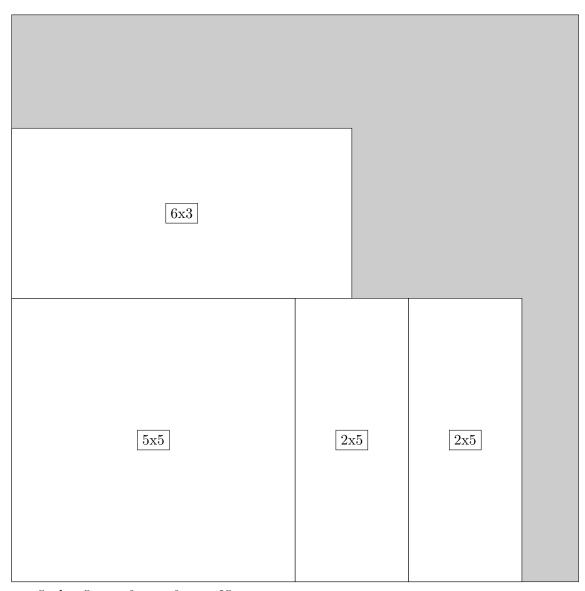
$$\begin{array}{l} w = 6 \;,\; h = 7 \;,\; x = 0 \;,\; y = 0 \;,\; v = 42 \\ w = 10 \;,\; h = 3 \;,\; x = 0 \;,\; y = 7 \;,\; v = 30 \\ w = 4 \;,\; h = 7 \;,\; x = 6 \;,\; y = 0 \;,\; v = 28 \end{array}$$



 $\begin{array}{l} w = \! 10 \; , \; h = \! 5 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 50 \\ w = \! 6 \; , \; h = \! 5 \; , \; x = \! 4 \; , \; y = \! 5 \; , \; v = \! 30 \\ w = \! 4 \; , \; h = \! 4 \; , \; x = \! 0 \; , \; y = \! 5 \; , \; v = \! 16 \end{array}$

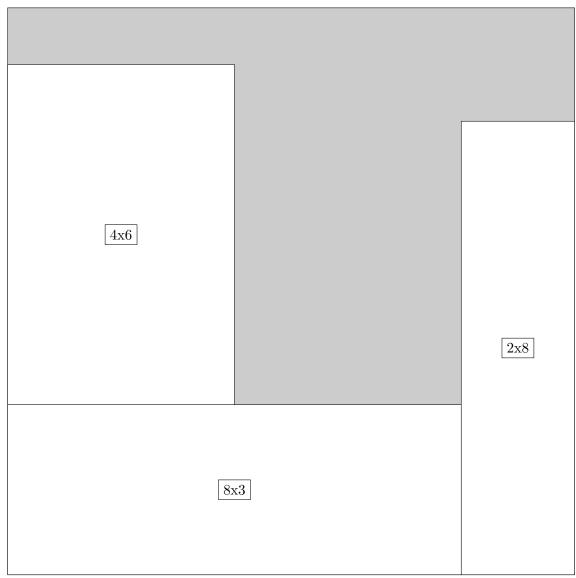
	6x1	
5x9	5x9	

 $\begin{array}{l} w = 5 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 45 \\ w = 5 \ , \ h = 9 \ , \ x = 5 \ , \ y = 0 \ , \ v = 45 \\ w = 6 \ , \ h = 1 \ , \ x = 4 \ , \ y = 9 \ , \ v = 6 \end{array}$



$$\mathbf{w}$$
 =2 , h =5 , x =5 , y =0 , v =10

$$\mathbf{w}$$
 =2 , h =5 , x =7 , y =0 , v =10



$$\le =8$$
 , h =3 , x =0 , y =0 , v =
24

$$\mathbf{w}$$
 =4 , h =6 , x =0 , y =3 , v =24

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