${\bf ClassName:}~{\bf Class_01.2bp\text{-}29}$

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

TypeNum: <u>50</u> Num: <u>60</u> OutS: <u>2400</u> InS: <u>2108</u> Rate: <u>0.878</u> UB: <u>24</u> LB0: <u>24</u> LB: <u>24</u>

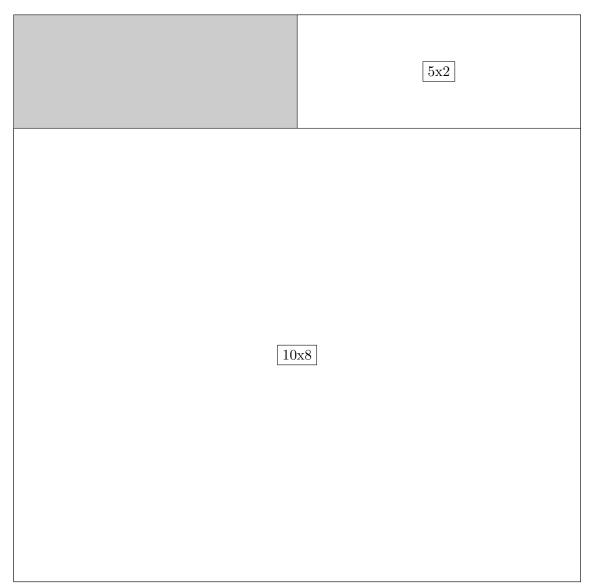
LBWithCut: $\underline{\mathbf{24}}$ NodeCut: $\underline{\mathbf{0}}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{24}}$ 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: 0.010 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 0.166 s

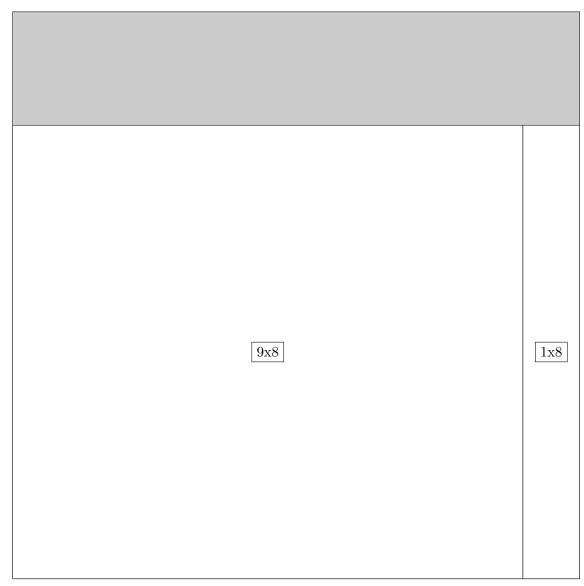


 $\begin{array}{l} w = \! 10 \ , \ h = \! 8 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 80 \\ w = \! 5 \ , \ h = \! 2 \ , \ x = \! 5 \ , \ y = \! 8 \ , \ v = \! 10 \end{array}$

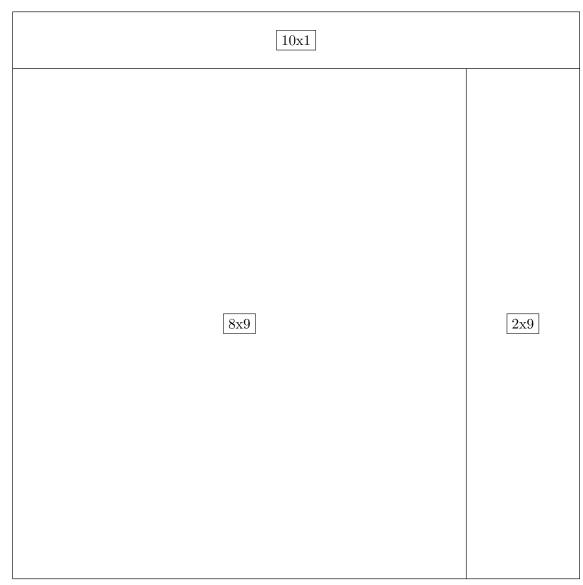


w = 10, h = 8, x = 0, y = 0, v = 80

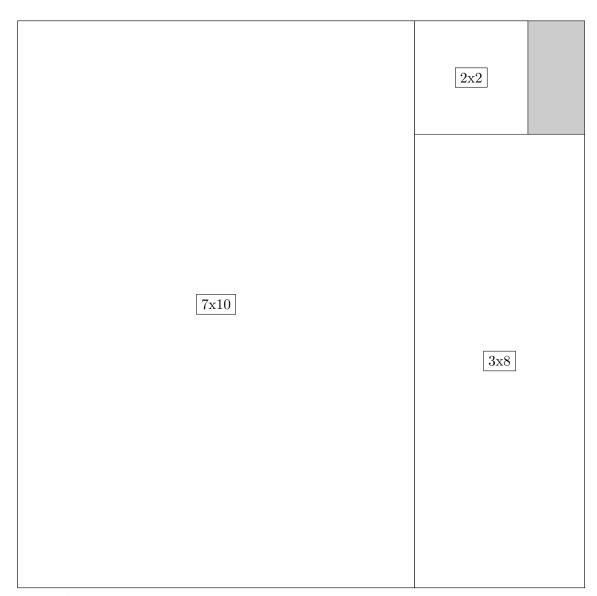




w =9, h =8, x =0, y =0, v =72 w =1, h =8, x =9, y =0, v =8



 $\begin{array}{l} w = 8 \; , \; h = 9 \; , \; x = 0 \; , \; y = 0 \; , \; v = 72 \\ w = 2 \; , \; h = 9 \; , \; x = 8 \; , \; y = 0 \; , \; v = 18 \\ w = 10 \; , \; h = 1 \; , \; x = 0 \; , \; y = 9 \; , \; v = 10 \end{array}$



$$\mathbf{w}$$
 =7 , h =10 , x =0 , y =0 , v =70

$$w = 2$$
, $h = 2$, $x = 7$, $y = 8$, $v = 4$

	2x3	
7x10	[3x7]	

$$\mathbf{w}$$
 =7 , h =10 , x =0 , y =0 , v =70

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

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

	3x4
7x10	3x6

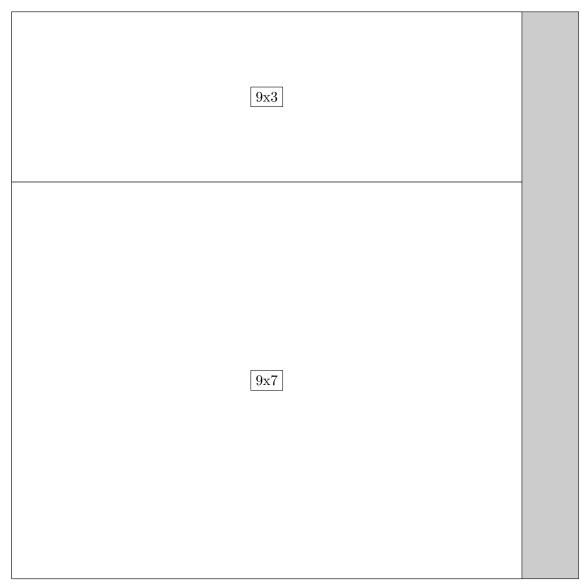
 \mathbf{w} =7 , h =10 , x =0 , y =0 , v =70

 \mathbf{w} =3 , h =6 , x =7 , y =0 , v =18

 \mathbf{w} =3 , h =4 , x =7 , y =6 , v =12

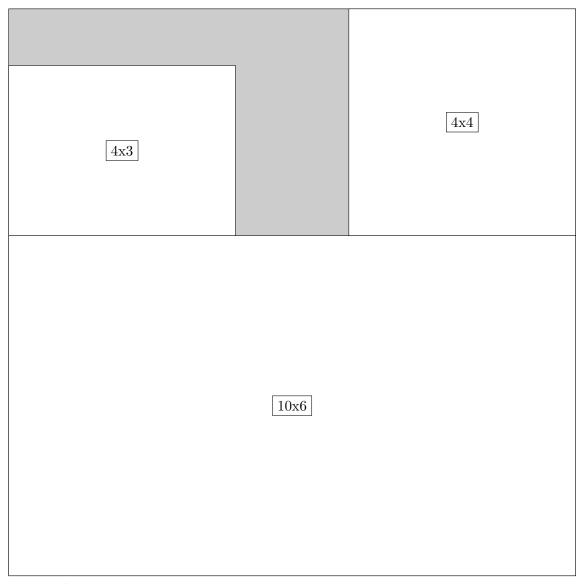
8x8	[2x8]

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

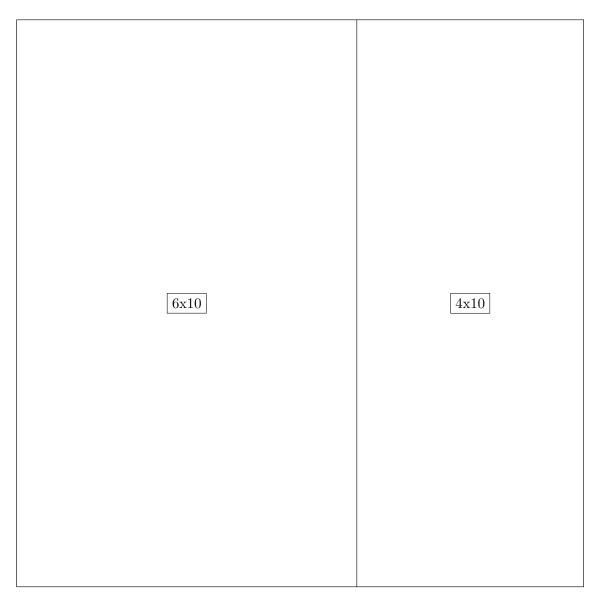


7x9	3x9
	[JAJ]

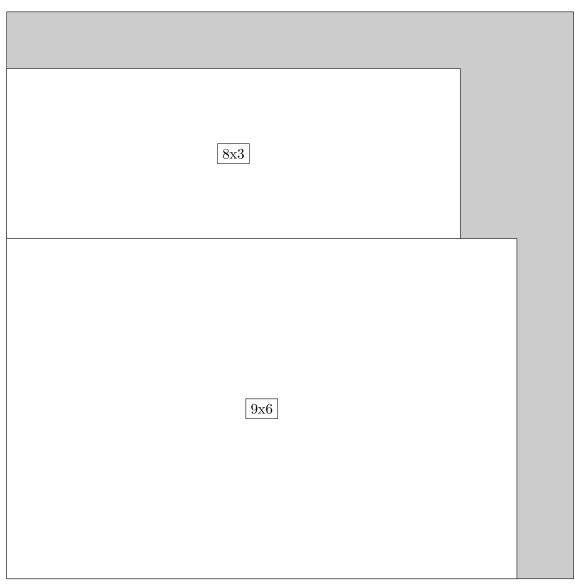
 $\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 3 \ , \ h = 9 \ , \ x = 7 \ , \ y = 0 \ , \ v = 27 \end{array}$

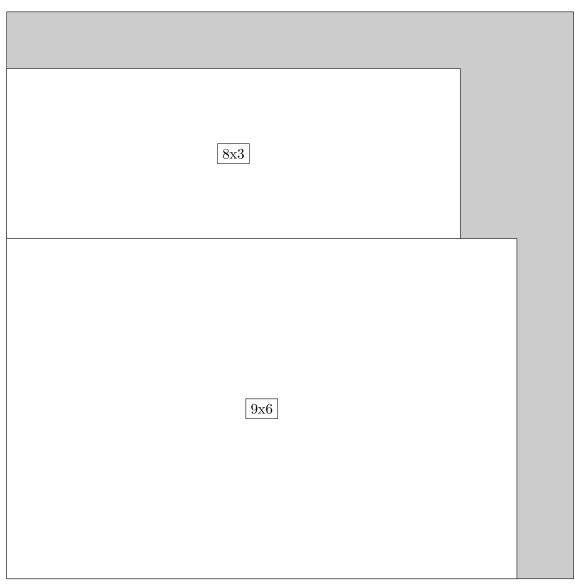


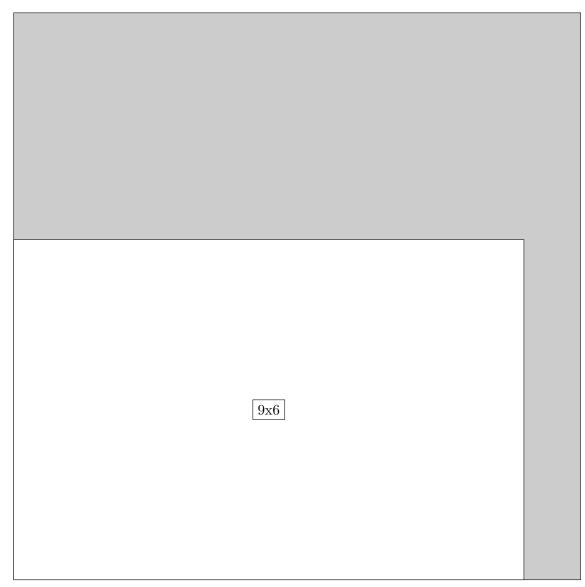
$$\begin{array}{l} w = \! 10 \; , \; h = \! 6 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 60 \\ w = \! 4 \; , \; h = \! 3 \; , \; x = \! 0 \; , \; y = \! 6 \; , \; v = \! 12 \\ w = \! 4 \; , \; h = \! 4 \; , \; x = \! 6 \; , \; y = \! 6 \; , \; v = \! 16 \end{array}$$



w =6, h =10, x =0, y =0, v =60 w =4, h =10, x =6, y =0, v =40







 $\le =9$, h =6 , x =0 , y =0 , v = 54



 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 4 \ , \ h = 9 \ , \ x = 6 \ , \ y = 0 \ , \ v = 36 \\ w = 10 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 10 \end{array}$

8x4	
8x6	2x6

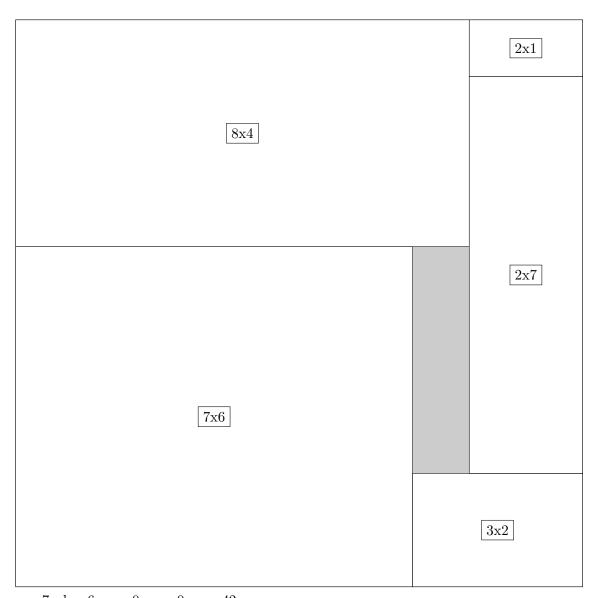
w = 8, h = 6, x = 0, y = 0, v = 48

 $\le =8$, h =4 , x =0 , y =6 , v =32

w = 2 , h = 6 , x = 8 , y = 0 , v = 12

6x8	4x8	
O.C.		

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



$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 8 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 32 \end{array}$$

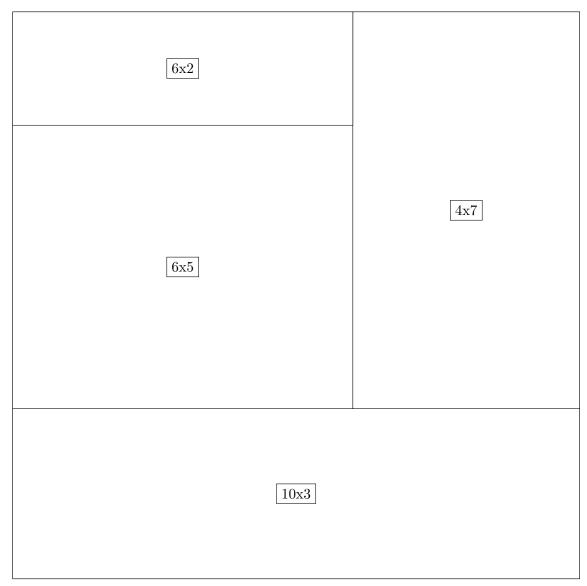
$$w = 3$$
, $h = 4$, $x = 0$, $y = 0$, $v = 6$
 $w = 3$, $h = 2$, $x = 7$, $y = 0$, $v = 6$

$$w = 2$$
, $h = 7$, $x = 8$, $y = 2$, $v = 14$

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

	9x3		
6x6		43	x6

$$\begin{array}{l} w=6 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=36 \\ w=9 \ , \ h=3 \ , \ x=0 \ , \ y=6 \ , \ v=27 \\ w=4 \ , \ h=6 \ , \ x=6 \ , \ y=0 \ , \ v=24 \end{array}$$



$$w = 10$$
 , $h = 3$, $x = 0$, $y = 0$, $v = 30$

$$\mathbf{w}$$
 =6 , h =5 , x =0 , y =3 , v =30

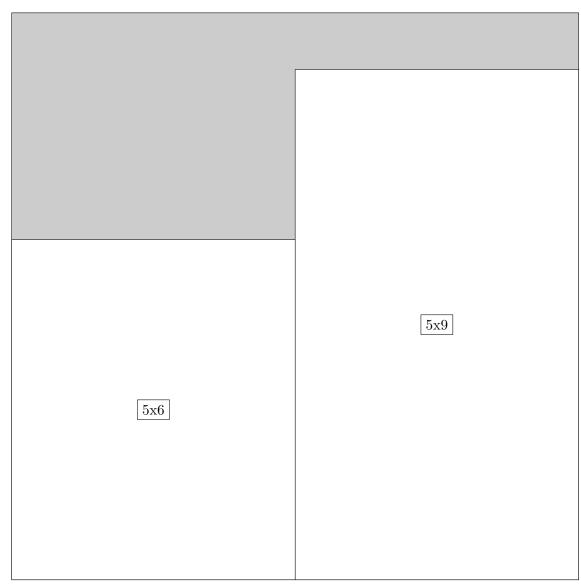
$$\mathbf{w}$$
 =4 , h =7 , x =6 , y =3 , v =28

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

	5x5
6x5	4x5

 $\begin{array}{l} w = 6 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 5 \ , \ x = 5 \ , \ y = 5 \ , \ v = 25 \end{array}$

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



w =5, h =9, x =5, y =0, v =45 w =5, h =6, x =0, y =0, v =30