${\bf ClassName:}\ {\bf Class\_01.2bp\text{-}25}$ 

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

TypeNum: <u>47</u> Num: <u>60</u> OutS: <u>1700</u> InS: <u>1659</u> Rate: <u>0.976</u> UB: <u>17</u> LB0: <u>17</u>

LBWithCut:  $\underline{17}$ NodeCut:  $\underline{0}$ 

LB: **17** 

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

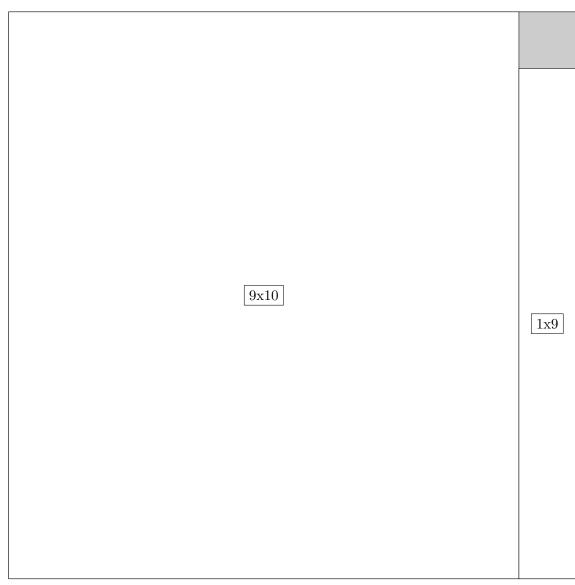
GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{17}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.140 s



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



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

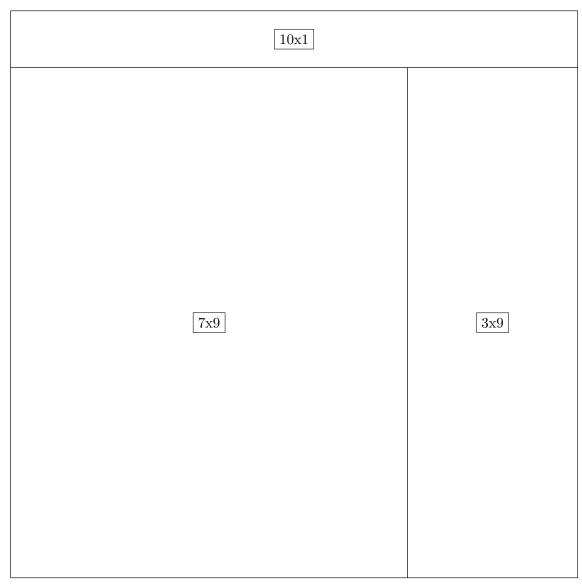
1x2	[7x2]	
	ا م	2x10
	8x8	

w = 8, h = 8, x = 0, y = 0, v = 64

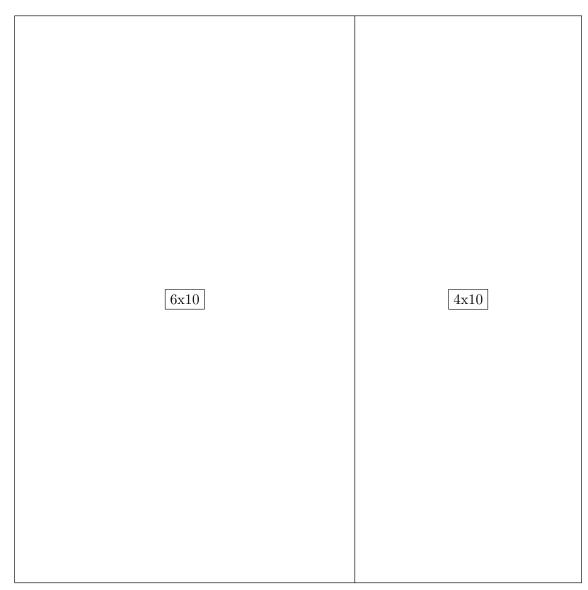
 $\mathbf{w}$  =2 , h =10 , x =8 , y =0 , v =20

 $\mathbf{w}$  =7 , h =2 , x =1 , y =8 , v =14

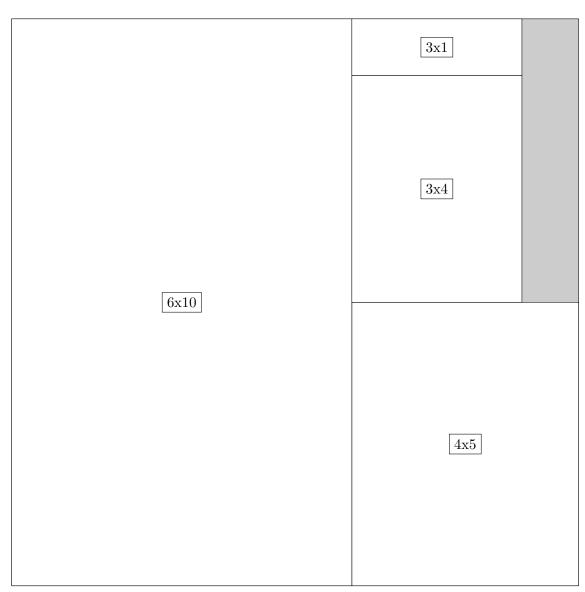
 $\mathbf{w}$  =1 , h =2 , x =0 , y =8 , v =2



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



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

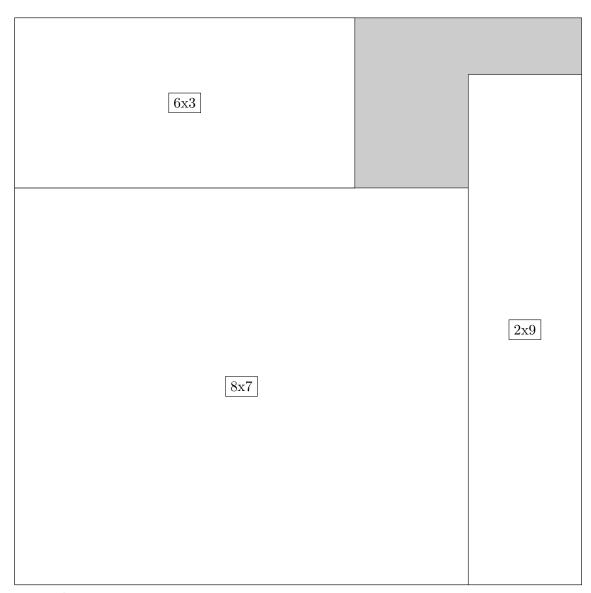


$$\mathbf{w}$$
 =4 , h =5 , x =6 , y =0 , v =20

$$\mathbf{w}$$
 =6 , h =10 , x =0 , y =0 , v =60

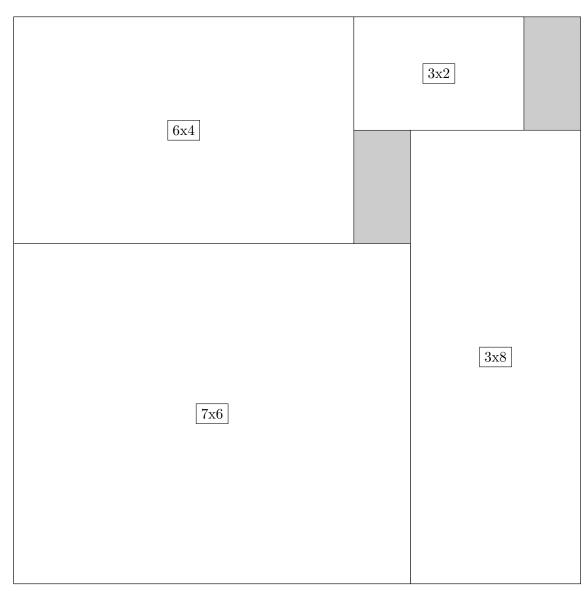
$$\mathbf{w}$$
 =3 , h =4 , x =6 , y =5 , v =12

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



$$\begin{array}{l} w = 8 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 56 \\ w = 6 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 18 \end{array}$$

$$\mathbf{w}$$
 =2 , h =9 , x =8 , y =0 , v =18

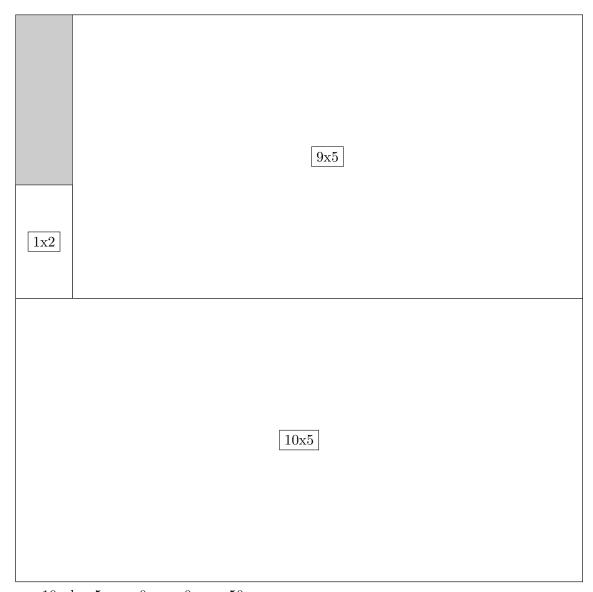


$$\mathbf{w}$$
 =7 ,  $\mathbf{h}$  =6 ,  $\mathbf{x}$  =0 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =42

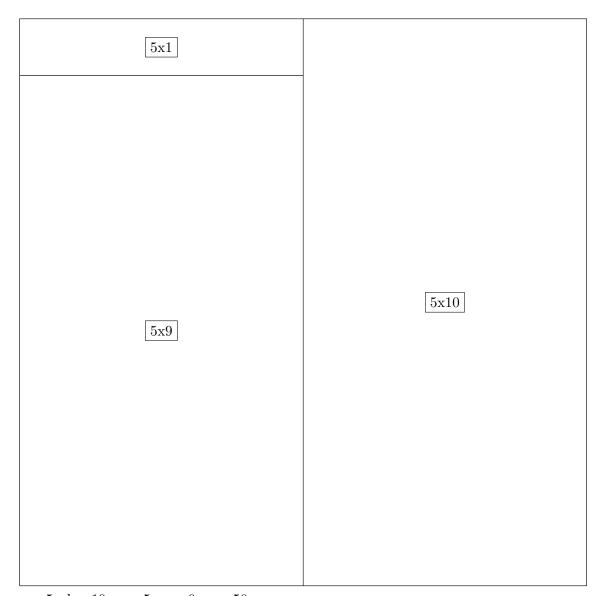
$$\mathbf{w}$$
 =6 , h =4 , x =0 , y =6 , v =24

$$\mathbf{w}$$
 =3 , h =8 , x =7 , y =0 , v =24

$$\le =3$$
 , h =2 , x =6 , y =8 , v =6

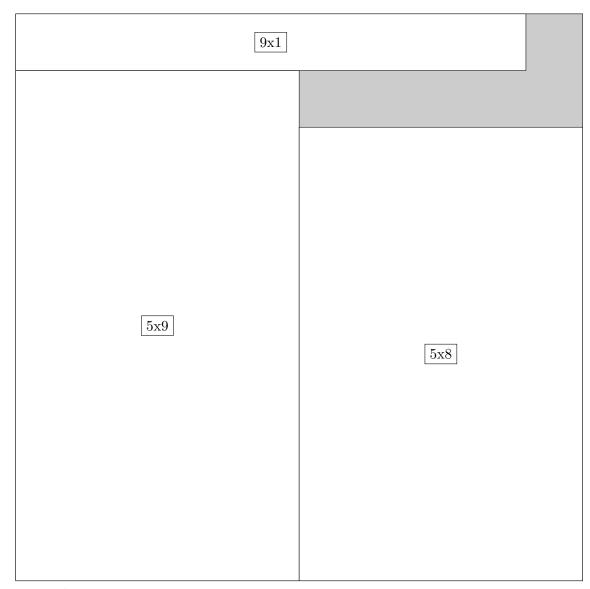


$$\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 9 \ , \ h = & 5 \ , \ x = & 1 \ , \ y = & 5 \ , \ v = & 45 \\ w = & 1 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 2 \end{array}$$



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

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



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

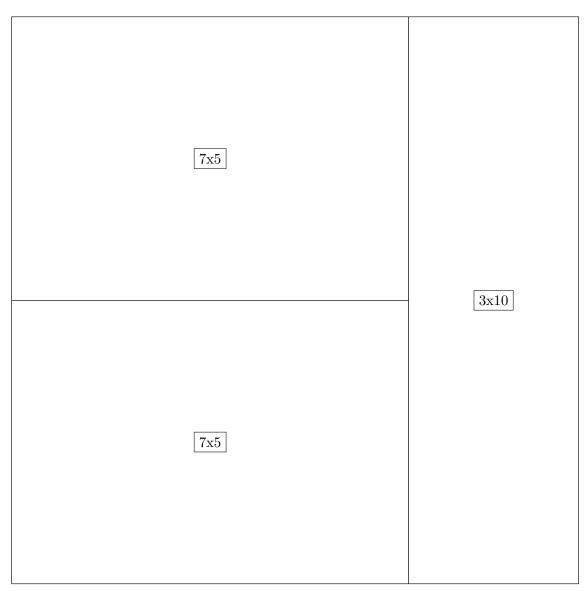
4x4	3x6	3x6
	10x4	

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

 $\mathbf{w}$  =3 , h =6 , x =7 , y =4 , v =18

 $\mathbf{w}$  =3 , h =6 , x =4 , y =4 , v =18

 $\mathbf{w}=\!\!4$  ,  $\mathbf{h}=\!\!4$  ,  $\mathbf{x}=\!\!0$  ,  $\mathbf{y}=\!\!4$  ,  $\mathbf{v}=\!\!16$ 



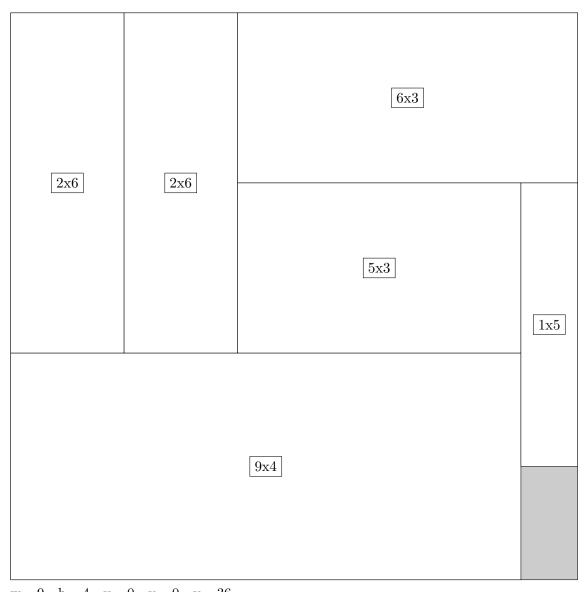
$$\mathbf{w}$$
 =7 ,  $\mathbf{h}$  =5 ,  $\mathbf{x}$  =0 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =35

$$\begin{array}{c} w = 7 \; , \; h = 5 \; , \; x = 0 \; , \; y = 5 \; , \; v = 35 \\ w = 3 \; , \; h = 10 \; , \; x = 7 \; , \; y = 0 \; , \; v = 30 \\ \end{array}$$

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

10x3				
5x7	5x7			

$$\begin{array}{l} w = 5 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 35 \\ w = 5 \ , \ h = 7 \ , \ x = 5 \ , \ y = 0 \ , \ v = 35 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 30 \end{array}$$



$$\begin{array}{l} w=9\ ,\, h=4\ ,\, x=0\ ,\, y=0\ ,\, v=36\\ w=6\ ,\, h=3\ ,\, x=4\ ,\, y=7\ ,\, v=18\\ w=5\ ,\, h=3\ ,\, x=4\ ,\, y=4\ ,\, v=15\\ w=2\ ,\, h=6\ ,\, x=0\ ,\, y=4\ ,\, v=12\\ w=2\ ,\, h=6\ ,\, x=2\ ,\, y=4\ ,\, v=12\\ w=1\ ,\, h=5\ ,\, x=9\ ,\, y=2\ ,\, v=5 \end{array}$$

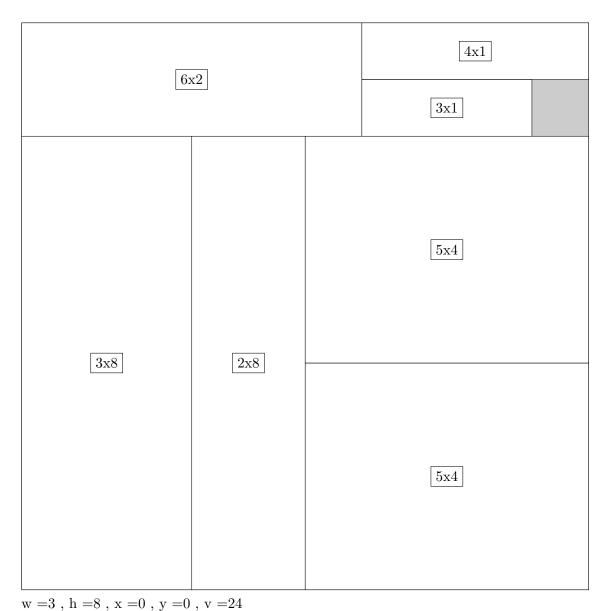
	9x3	
4x7	4x7	2x7

$$\mathbf{w}$$
 =4 , h =7 , x =0 , y =0 , v =28

$$\mathbf{w}$$
 =4 , h =7 , x =4 , y =0 , v =28

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

$$\mathbf{w}$$
 =2 , h =7 , x =8 , y =0 , v =14



 $\le =3$  , h =1 , x =6 , y =8 , v =3