$ClassName: \ Class_01.2bp\text{-}49$

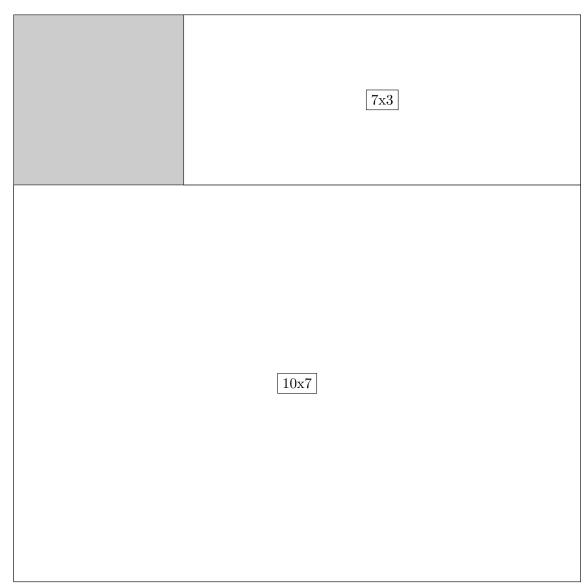
 $\begin{array}{ll} \text{BinSize: } \underline{\mathbf{10} \times \mathbf{10}} \\ \text{ReduceSize: } \underline{\mathbf{10} \times \mathbf{10}} \end{array}$

TypeNum: <u>65</u> Num: <u>100</u> OutS: <u>3800</u> InS: <u>3417</u> Rate: <u>0.899</u> UB: <u>38</u> LB: <u>38</u>

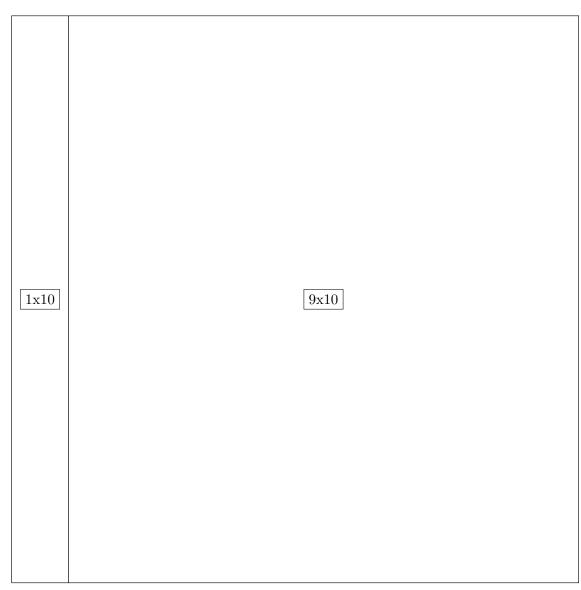
LBWithCut: $\underline{38}$ NodeCount: $\underline{0}$ PrimalNode: $\underline{0}$ ColumnCount: $\underline{38}$ TotalCutCount: $\underline{0}$ RootCutCount: $\underline{0}$ LPSolverCnt: $\underline{1}$ PricingSolverCnt: $\underline{0}$ BranchAndBoundNum: $\underline{1}$

isOpt: **true**

 $\begin{array}{ll} \mbox{TimeOnPrimal: } \underline{0.000 \ s} \\ \mbox{TimeOnPricing: } \underline{0.000 \ s} \\ \mbox{TimeOnRmp: } \underline{0.078 \ s} \\ \mbox{TotalTime: } \underline{0.234 \ s} \end{array}$



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

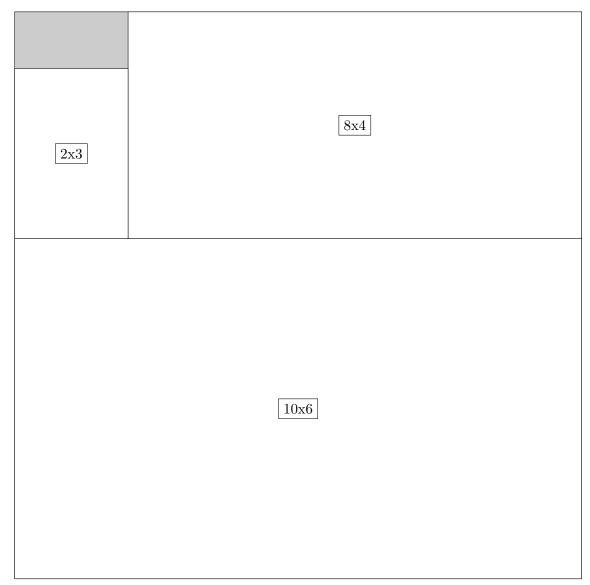


| 4x5 | $6\mathrm{x}5$ |
|-----|----------------|
| | 10x5 |

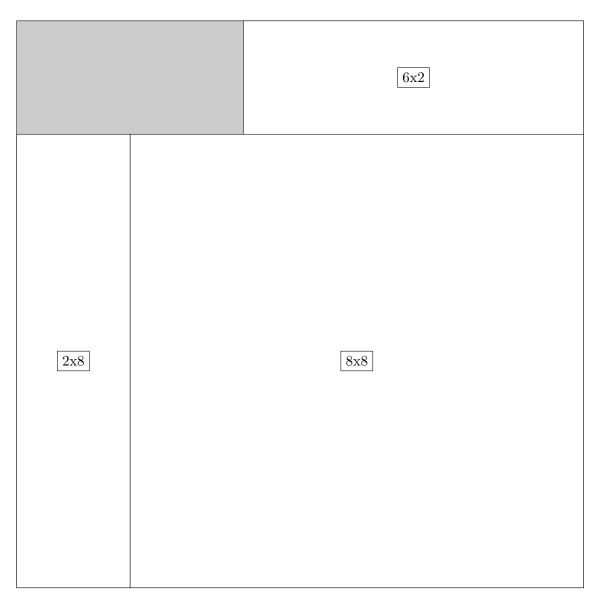
 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 6 \ , \ h = & 5 \ , \ x = & 4 \ , \ y = & 5 \ , \ v = & 30 \\ w = & 4 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 20 \end{array}$



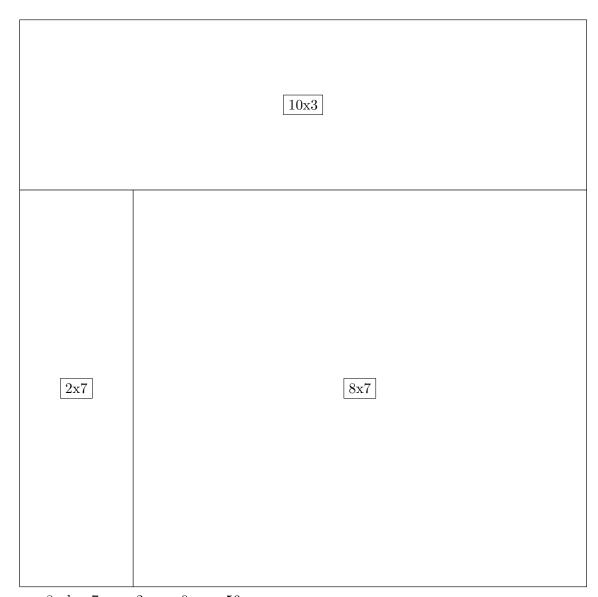




$$\begin{array}{l} w = & 10 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 60 \\ w = & 8 \ , \ h = & 4 \ , \ x = & 2 \ , \ y = & 6 \ , \ v = & 32 \\ w = & 2 \ , \ h = & 3 \ , \ x = & 0 \ , \ y = & 6 \ , \ v = & 6 \end{array}$$



$$\begin{array}{l} w = 8 \;, \; h = 8 \;, \; x = 2 \;, \; y = 0 \;, \; v = 64 \\ w = 6 \;, \; h = 2 \;, \; x = 4 \;, \; y = 8 \;, \; v = 12 \\ w = 2 \;, \; h = 8 \;, \; x = 0 \;, \; y = 0 \;, \; v = 16 \end{array}$$



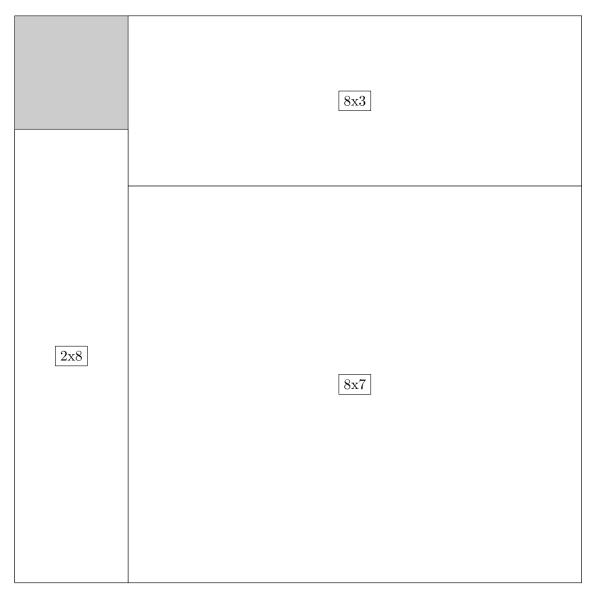
$$\begin{array}{l} w = 8 \;,\; h = 7 \;,\; x = 2 \;,\; y = 0 \;,\; v = 56 \\ w = 2 \;,\; h = 7 \;,\; x = 0 \;,\; y = 0 \;,\; v = 14 \\ w = 10 \;,\; h = 3 \;,\; x = 0 \;,\; y = 7 \;,\; v = 30 \end{array}$$

| 3x5 | 7x6 |
|-----|----------------|
| 3x4 | $7\mathrm{x}4$ |

 $\begin{array}{l} w=7\ ,\, h=4\ ,\, x=3\ ,\, y=0\ ,\, v=28\\ w=3\ ,\, h=4\ ,\, x=0\ ,\, y=0\ ,\, v=12\\ w=7\ ,\, h=6\ ,\, x=3\ ,\, y=4\ ,\, v=42\\ w=3\ ,\, h=5\ ,\, x=0\ ,\, y=4\ ,\, v=15 \end{array}$



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



$$\begin{array}{l} w=8 \ , \ h=7 \ , \ x=2 \ , \ y=0 \ , \ v=56 \\ w=8 \ , \ h=3 \ , \ x=2 \ , \ y=7 \ , \ v=24 \\ w=2 \ , \ h=8 \ , \ x=0 \ , \ y=0 \ , \ v=16 \end{array}$$

| [4x1] | | | |
|-------|-----|------------------------|--|
| 4x3 | | $\boxed{6\mathrm{x}4}$ | |
| 1x6 | 2x6 | 7x6 | |

$$\begin{array}{l} w=7\;,\,h=6\;,\,x=3\;,\,y=0\;,\,v=42\\ w=2\;,\,h=6\;,\,x=1\;,\,y=0\;,\,v=12\\ w=1\;,\,h=6\;,\,x=0\;,\,y=0\;,\,v=6\\ w=6\;,\,h=4\;,\,x=4\;,\,y=6\;,\,v=24\\ w=4\;,\,h=3\;,\,x=0\;,\,y=6\;,\,v=12\\ w=4\;,\,h=1\;,\,x=0\;,\,y=9\;,\,v=4 \end{array}$$

| | 2x1 | |
|-----|-----|-----|
| 6x5 | 2x5 | 2x9 |
| 8x3 | | |

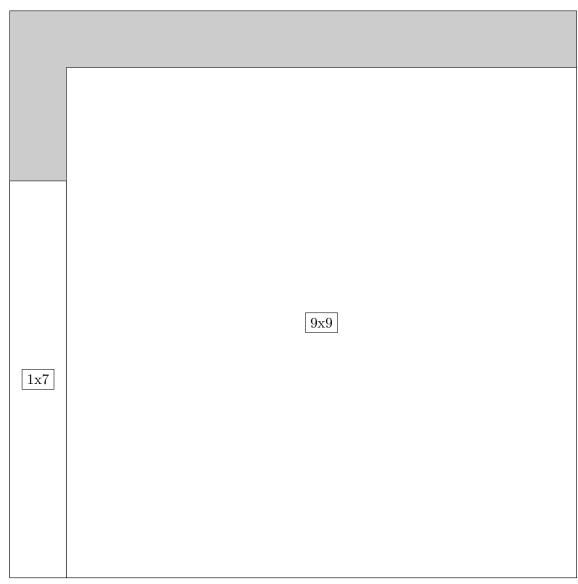
$$w = 2$$
, $h = 9$, $x = 8$, $y = 0$, $v = 18$

$$\mathbf{w}$$
 =2 , h =5 , x =6 , y =3 , v =
10

$$w=2$$
, $h=1$, $x=6$, $y=8$, $v=2$

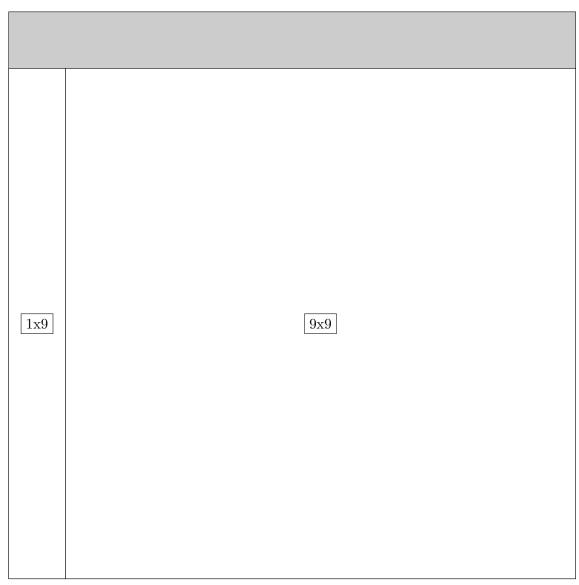
$$w = 6$$
, $h = 5$, $x = 0$, $y = 3$, $v = 30$

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

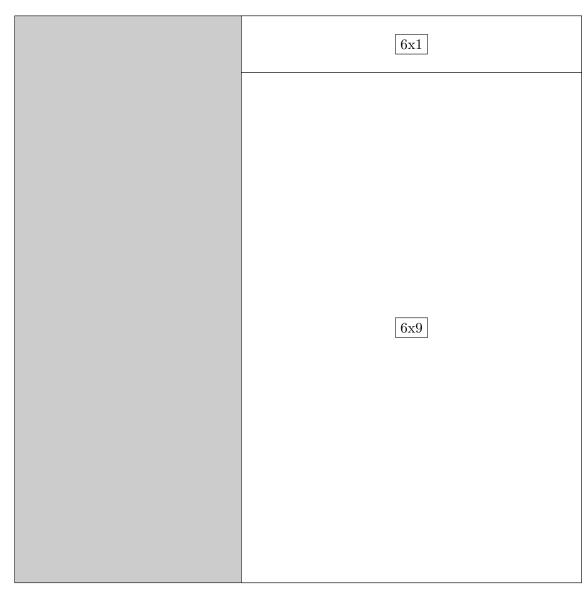


| 1x3 | 9x3 |
|-------|-----|
| [4x2] | |
| 4x5 | 6x7 |

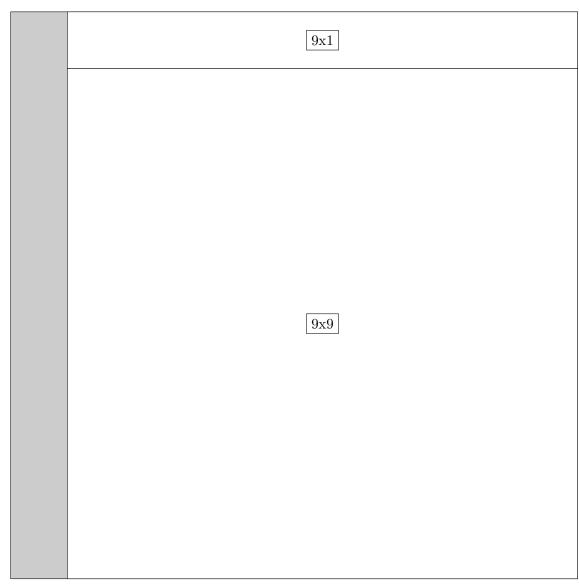
$$\begin{array}{l} w=6 \ , \ h=7 \ , \ x=4 \ , \ y=0 \ , \ v=42 \\ w=4 \ , \ h=5 \ , \ x=0 \ , \ y=0 \ , \ v=20 \\ w=4 \ , \ h=2 \ , \ x=0 \ , \ y=5 \ , \ v=8 \\ w=9 \ , \ h=3 \ , \ x=1 \ , \ y=7 \ , \ v=27 \\ w=1 \ , \ h=3 \ , \ x=0 \ , \ y=7 \ , \ v=3 \end{array}$$

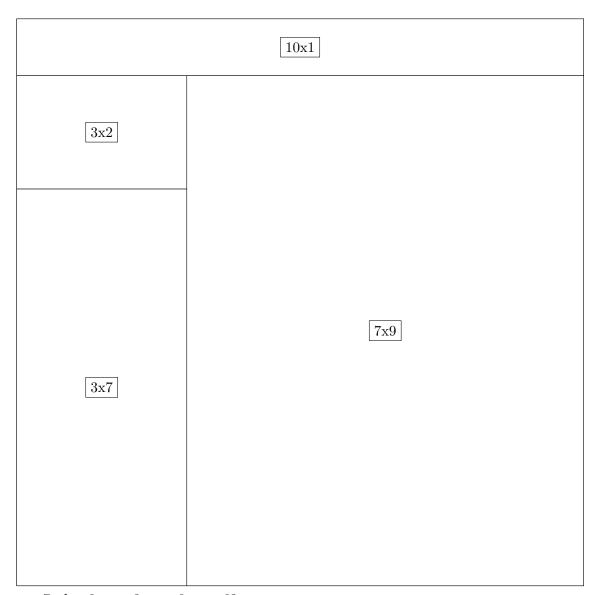


w =9, h =9, x =1, y =0, v =81 w =1, h =9, x =0, y =0, v =9



w =6, h =9, x =4, y =0, v =54 w =6, h =1, x =4, y =9, v =6

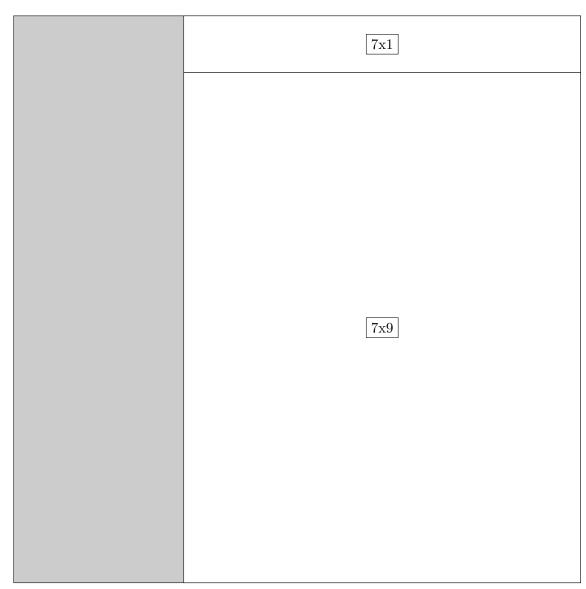




$$\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 3 \ , \ y = 0 \ , \ v = 63 \\ w = 3 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 21 \end{array}$$

$$\mathbf{w}$$
 =3 , h =2 , x =0 , y =7 , v =6

$$\mathbf{w}$$
 =10 , h =1 , x =0 , y =9 , v =10



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

| [5x2] | 1x1 4x1 |
|-------|---------|
| | |
| | |
| | |
| 5x8 | 5x9 |
| | |
| | |
| | |

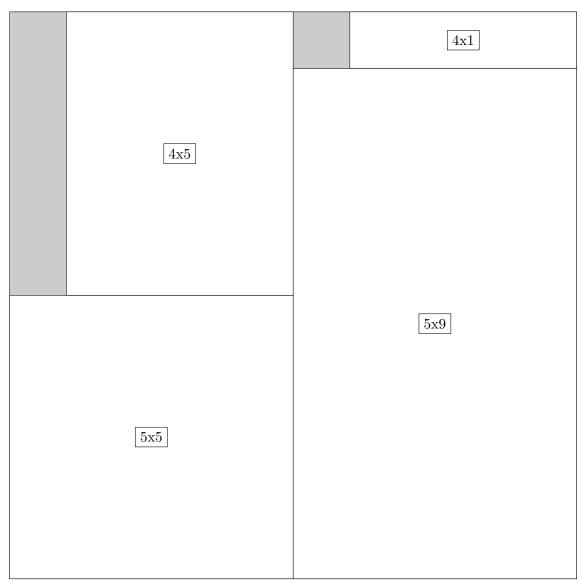
$$w = 5$$
, $h = 9$, $x = 5$, $y = 0$, $v = 45$

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

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

$$\mathbf{w}=\!5$$
 , $\mathbf{h}=\!8$, $\mathbf{x}=\!0$, $\mathbf{y}=\!0$, $\mathbf{v}=\!40$

$$\mathbf{w}=\!5$$
 , $\mathbf{h}=\!2$, $\mathbf{x}=\!0$, $\mathbf{y}=\!8$, $\mathbf{v}=\!10$



 \mathbf{w} =5 , \mathbf{h} =9 , \mathbf{x} =5 , \mathbf{y} =0 , \mathbf{v} =45

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

w = 5, h = 5, x = 0, y = 0, v = 25

 $\le=4$, h =5 , x =1 , y =5 , v =20

| [4x1] | |
|------------------------|------|
| | |
| | |
| | |
| | 4x10 |
| $\boxed{6\mathrm{x}9}$ | |
| | |
| | |
| | |
| | |

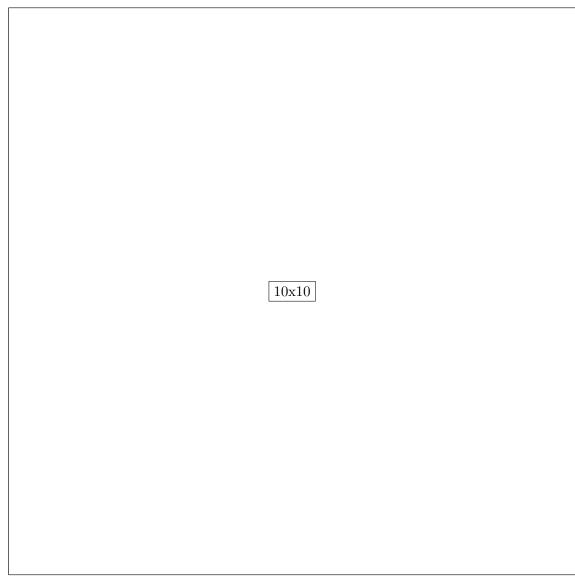
 \mathbf{w} =4 , h =10 , x =6 , y =0 , v =40

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

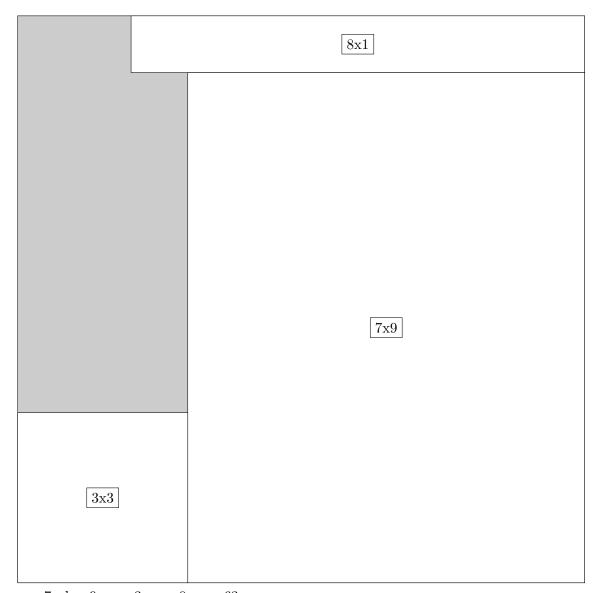
 \mathbf{w} =4 , h =1 , x =2 , y =9 , v =4

| | 8x3 | | |
|----|-----|--|-----|
| 42 | x7 | | 6x7 |

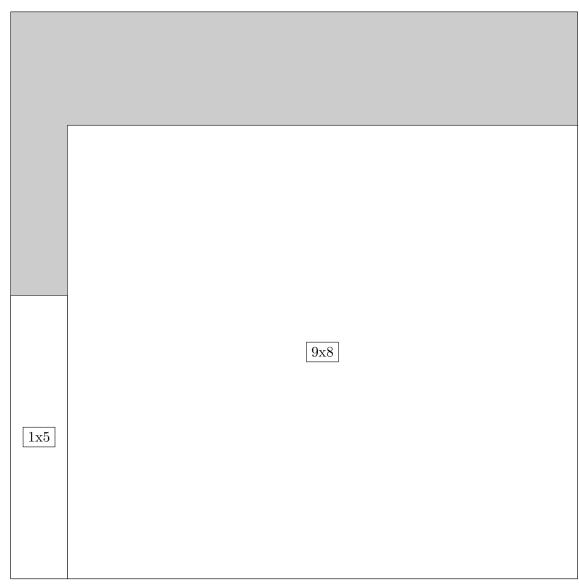
 $\begin{array}{l} w=6 \ , \ h=7 \ , \ x=4 \ , \ y=0 \ , \ v=42 \\ w=4 \ , \ h=7 \ , \ x=0 \ , \ y=0 \ , \ v=28 \\ w=8 \ , \ h=3 \ , \ x=2 \ , \ y=7 \ , \ v=24 \end{array}$

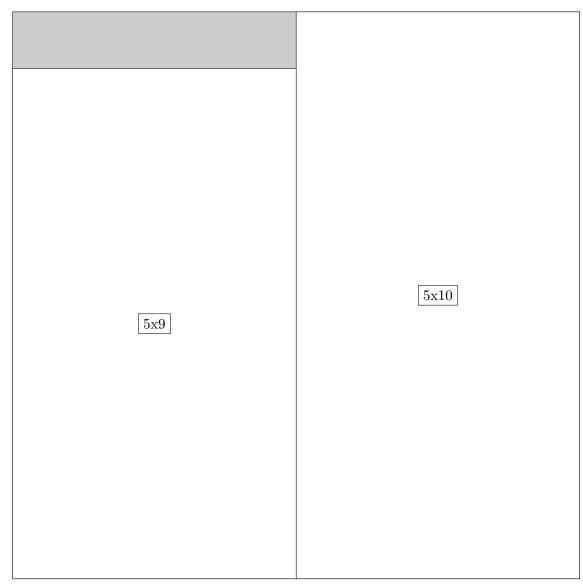


 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100

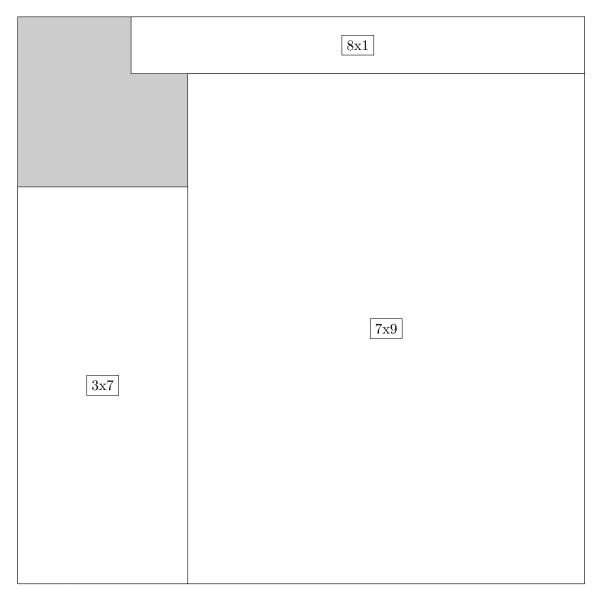


$$\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 3 \ , \ y = 0 \ , \ v = 63 \\ w = 3 \ , \ h = 3 \ , \ x = 0 \ , \ y = 0 \ , \ v = 9 \\ w = 8 \ , \ h = 1 \ , \ x = 2 \ , \ y = 9 \ , \ v = 8 \end{array}$$

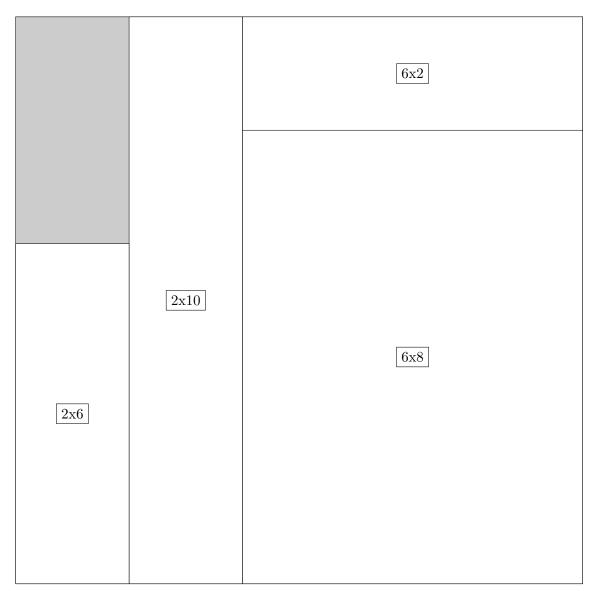




w =5, h =10, x =5, y =0, v =50 w =5, h =9, x =0, y =0, v =45



$$\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 3 \ , \ y = 0 \ , \ v = 63 \\ w = 3 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 21 \\ w = 8 \ , \ h = 1 \ , \ x = 2 \ , \ y = 9 \ , \ v = 8 \end{array}$$

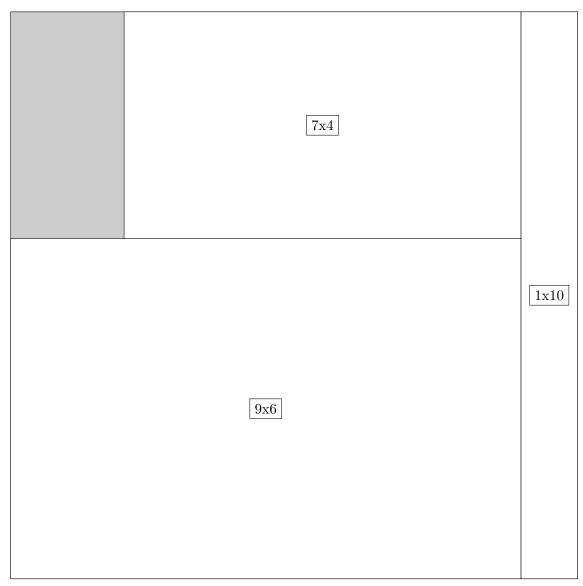


w=6 , h=8 , x=4 , y=0 , v=48

 \mathbf{w} =6 , h =2 , x =4 , y =8 , v =12

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

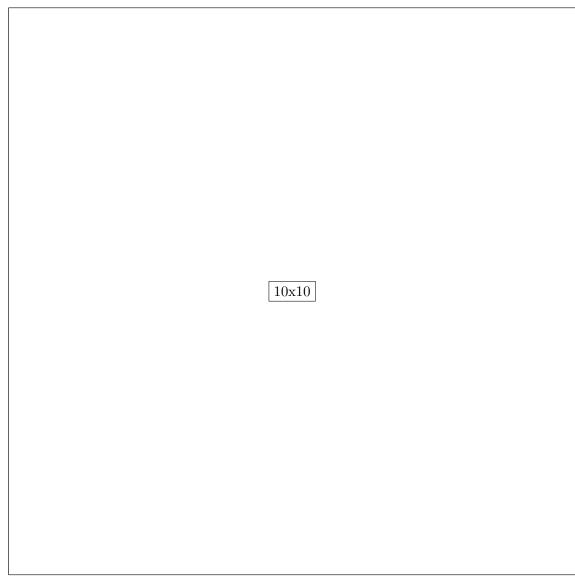
 \mathbf{w} =2 , h =6 , x =0 , y =0 , v =12



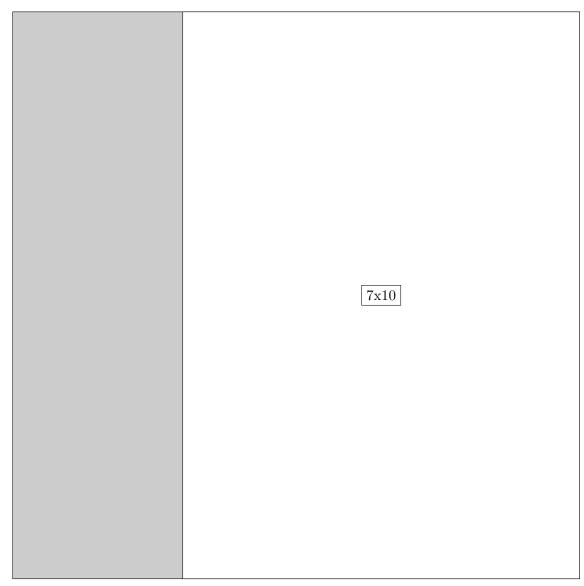
$$w=1$$
 , $h=10$, $x=9$, $y=0$, $v=10$

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

$$\mathbf{w}$$
 =7 , h =4 , x =2 , y =6 , v =28



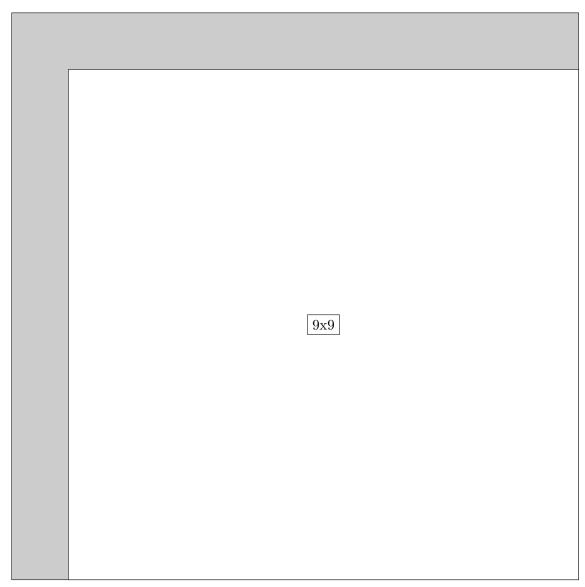
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100



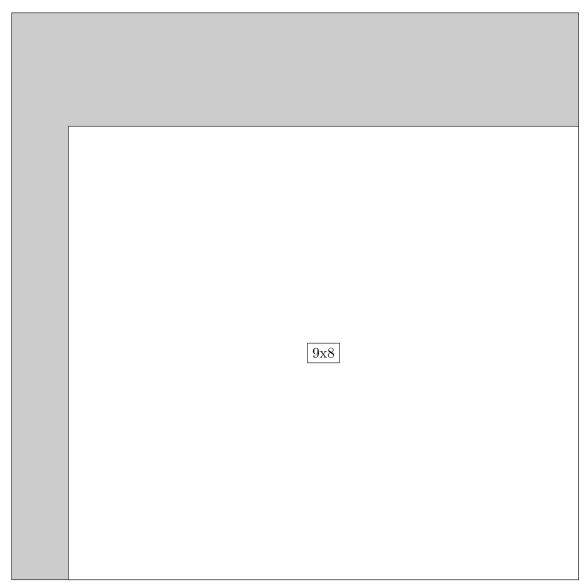
 $\le =7$, h =10 , x =3 , y =0 , v =70



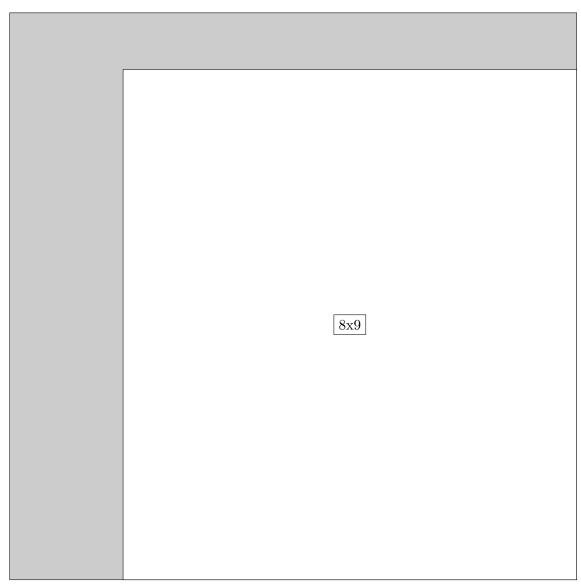
w = 10, h = 8, x = 0, y = 0, v = 80



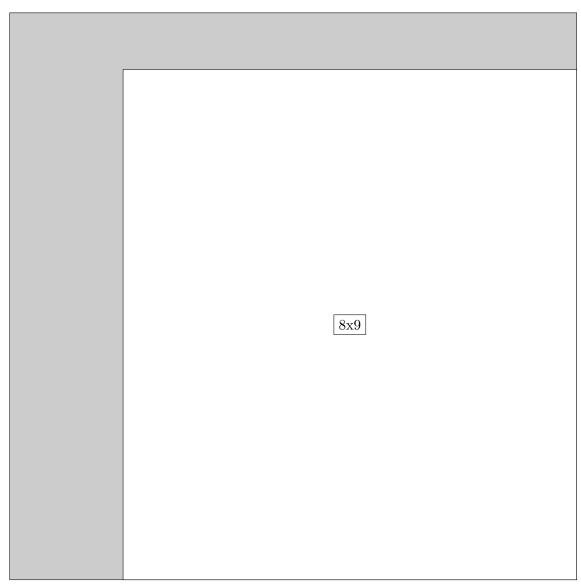
 \mathbf{w} =9 , h =9 , x =1 , y =0 , v =81



 \mathbf{w} =9 , h =8 , x =1 , y =0 , v =72



 \mathbf{w} =8 , h =9 , x =2 , y =0 , v =72



 \mathbf{w} =8 , h =9 , x =2 , y =0 , v =72