$ClassName: \ Class\_02.2bp-23$ 

BinSize:  $30 \times 30$ ReduceSize:  $30 \times 30$ 

TypeNum:  $\underline{48}$ Num:  $\underline{60}$ OutS:  $\underline{2700}$ InS:  $\underline{1823}$ Rate:  $\underline{0.675}$ 

UB: **3**LB0: **3**LB: **3** 

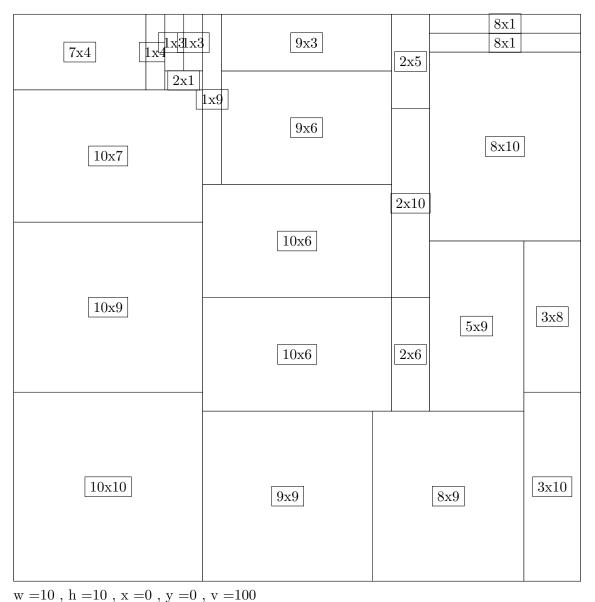
LBWithCut:  $\underline{\mathbf{3}}$  NodeCut:  $\underline{\mathbf{0}}$ 

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

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{3}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

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

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.093 \ s} \\ {\rm TotalTime:} \ \underline{0.156 \ s} \\ \end{array}$ 



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

w =9, h =9, x =10, y =0, v =81

w =8, h =10, x =22, y =18, v =80

w =8, h =9, x =19, y =0, v =72

w =10, h =7, x =0, y =19, v =70

w =10, h =6, x =10, y =9, v =60

w =10, h =6, x =10, y =15, v =60

w =9, h =6, x =11, y =21, v =54

w =5, h =9, x =22, y =9, v =45

w =3, h =10, x =27, y =0, v =30

w =7, h =4, x =0, y =26, v =28

w =9, h =3, x =11, y =27, v =27

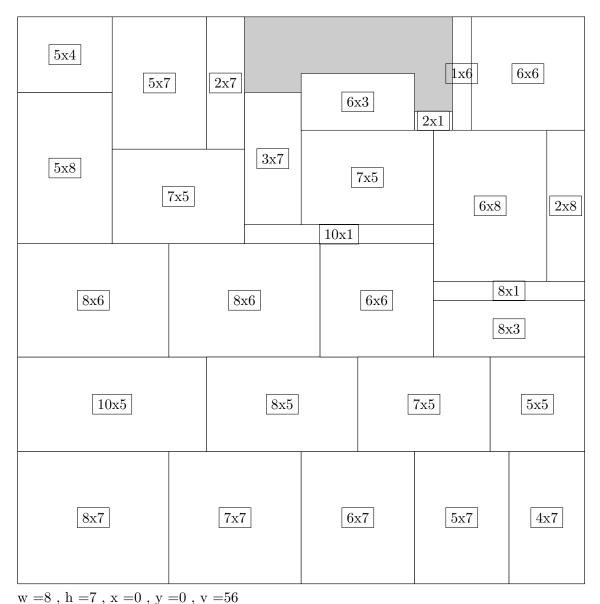
w =3, h =8, x =27, y =10, v =24

w =2, h =10, x =20, y =15, v =20

w =2, h =6, x =20, y =9, v =12
```

 $\begin{array}{l} w=2\ ,\, h=5\ ,\, x=20\ ,\, y=25\ ,\, v=10\\ w=1\ ,\, h=9\ ,\, x=10\ ,\, y=21\ ,\, v=9\\ w=8\ ,\, h=1\ ,\, x=22\ ,\, y=28\ ,\, v=8\\ w=8\ ,\, h=1\ ,\, x=22\ ,\, y=29\ ,\, v=8\\ w=1\ ,\, h=4\ ,\, x=7\ ,\, y=26\ ,\, v=4\\ w=1\ ,\, h=3\ ,\, x=8\ ,\, y=27\ ,\, v=3\\ w=1\ ,\, h=3\ ,\, x=9\ ,\, y=27\ ,\, v=3\\ \end{array}$ 

 $\mathbf{w}$  =2 , h =1 , x =8 , y =26 , v =2



$$\begin{array}{c} w=10\;,\;h=5\;,\;x=0\;,\;y=7\;,\;v=50\\ w=7\;,\;h=7\;,\;x=8\;,\;y=0\;,\;v=49\\ w=8\;,\;h=6\;,\;x=0\;,\;y=12\;,\;v=48\\ w=8\;,\;h=6\;,\;x=8\;,\;y=12\;,\;v=48\\ w=6\;,\;h=8\;,\;x=22\;,\;y=16\;,\;v=48\\ w=6\;,\;h=7\;,\;x=15\;,\;y=0\;,\;v=42\\ w=8\;,\;h=5\;,\;x=10\;,\;y=7\;,\;v=40\\ w=5\;,\;h=8\;,\;x=0\;,\;y=18\;,\;v=40\\ w=6\;,\;h=6\;,\;x=16\;,\;y=12\;,\;v=36\\ w=8\;,\;h=3\;,\;x=22\;,\;y=12\;,\;v=24\\ w=7\;,\;h=5\;,\;x=18\;,\;y=7\;,\;v=35\\ w=7\;,\;h=5\;,\;x=18\;,\;y=7\;,\;v=35\\ w=7\;,\;h=5\;,\;x=15\;,\;y=19\;,\;v=35\\ w=7\;,\;h=5\;,\;x=15\;,\;y=19\;,\;v=35\\ w=5\;,\;h=7\;,\;x=21\;,\;y=0\;,\;v=35\\ w=5\;,\;h=7\;,\;x=5\;,\;y=23\;,\;v=35\\ \end{array}$$

```
w = 4, h = 7, x = 26, y = 0, v = 28
```

$$w$$
 =5 , h =5 , x =25 , y =7 , v =25

$$w = 6$$
,  $h = 6$ ,  $x = 24$ ,  $y = 24$ ,  $v = 36$ 

$$\mathbf{w}$$
 =3 , h =7 , x =12 , y =19 , v =21

$$w = 5$$
,  $h = 4$ ,  $x = 0$ ,  $y = 26$ ,  $v = 20$ 

$$\mathbf{w}$$
 =6 , h =3 , x =15 , y =24 , v =18

$$w$$
 =2 , h =8 , x =28 , y =16 , v =16

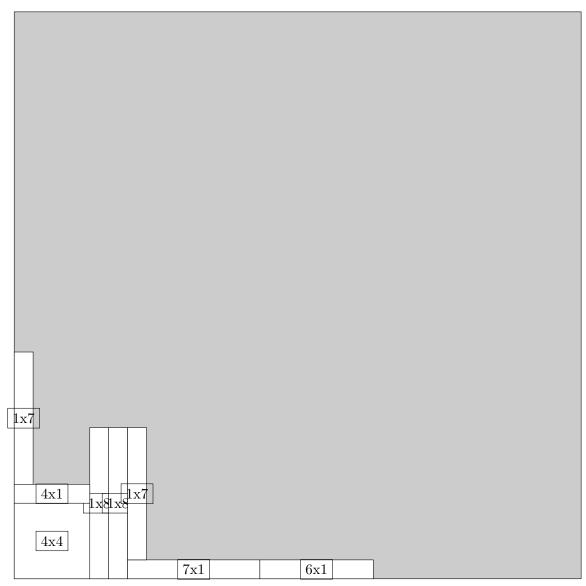
$$w=2$$
 ,  $h=7$  ,  $x=\!10$  ,  $y=\!23$  ,  $v=\!14$ 

$$\mathbf{w}$$
 =10 , h =1 , x =12 , y =18 , v =10

$$w$$
 =8 , h =1 , x =22 , y =15 , v =8

$$\mathbf{w}$$
 =1 , h =6 , x =23 , y =24 , v =6

$$\mathbf{w}=2$$
 ,  $\mathbf{h}=1$  ,  $\mathbf{x}=21$  ,  $\mathbf{y}=24$  ,  $\mathbf{v}=2$ 



$$\begin{array}{l} w = 4 \;,\; h = 4 \;,\; x = 0 \;,\; y = 0 \;,\; v = 16 \\ w = 1 \;,\; h = 8 \;,\; x = 4 \;,\; y = 0 \;,\; v = 8 \\ w = 1 \;,\; h = 8 \;,\; x = 5 \;,\; y = 0 \;,\; v = 8 \\ w = 7 \;,\; h = 1 \;,\; x = 6 \;,\; y = 0 \;,\; v = 7 \\ w = 1 \;,\; h = 7 \;,\; x = 6 \;,\; y = 1 \;,\; v = 7 \\ w = 1 \;,\; h = 7 \;,\; x = 0 \;,\; y = 5 \;,\; v = 7 \\ w = 6 \;,\; h = 1 \;,\; x = 13 \;,\; y = 0 \;,\; v = 6 \\ w = 4 \;,\; h = 1 \;,\; x = 0 \;,\; y = 4 \;,\; v = 4 \end{array}$$