$ClassName: \ Class\_02.2bp-34$ 

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

TypeNum: <u>55</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2352</u> Rate: <u>0.871</u>

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

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

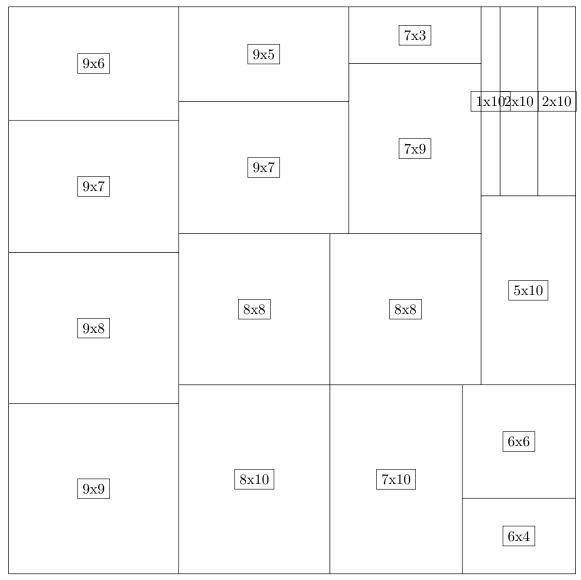
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

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

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.062 sTotalTime: 0.109 s



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

$$w = 8$$
,  $h = 10$ ,  $x = 9$ ,  $y = 0$ ,  $v = 80$ 

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

$$w = 7$$
,  $h = 10$ ,  $x = 17$ ,  $y = 0$ ,  $v = 70$ 

$$w = 8$$
,  $h = 8$ ,  $x = 9$ ,  $y = 10$ ,  $v = 64$ 

$$w = 8$$
,  $h = 8$ ,  $x = 17$ ,  $y = 10$ ,  $v = 64$ 

$$w = 9$$
,  $h = 7$ ,  $x = 0$ ,  $y = 17$ ,  $v = 63$ 

$$w = 9$$
,  $h = 7$ ,  $x = 9$ ,  $y = 18$ ,  $v = 63$ 

$$w = 7$$
,  $h = 9$ ,  $x = 18$ ,  $y = 18$ ,  $v = 63$ 

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

$$w = 9$$
,  $h = 6$ ,  $x = 0$ ,  $y = 24$ ,  $v = 54$ 

$$w$$
 =5 , h =10 , x =25 , y =10 , v =50

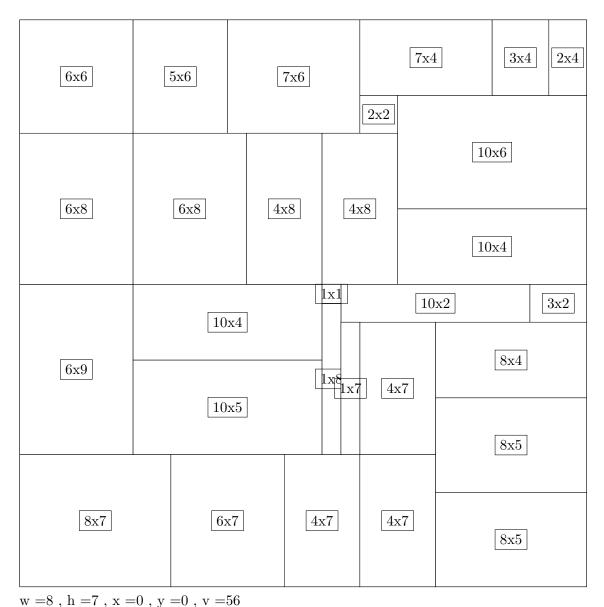
$$w = 9$$
,  $h = 5$ ,  $x = 9$ ,  $y = 25$ ,  $v = 45$ 

$$w = 6$$
,  $h = 6$ ,  $x = 24$ ,  $y = 4$ ,  $v = 36$ 

$$w = 7$$
,  $h = 3$ ,  $x = 18$ ,  $y = 27$ ,  $v = 21$ 

$$w = 2$$
,  $h = 10$ ,  $x = 28$ ,  $y = 20$ ,  $v = 20$ 

$$\begin{array}{l} w = 2 \ , \ h = \! 10 \ , \ x = \! 26 \ , \ y = \! 20 \ , \ v = \! 20 \\ w = \! 1 \ , \ h = \! 10 \ , \ x = \! 25 \ , \ y = \! 20 \ , \ v = \! 10 \end{array}$$



$$\begin{array}{l} w=6\;,\;h=9\;,\;x=0\;,\;y=7\;,\;v=54\\ w=10\;,\;h=5\;,\;x=6\;,\;y=7\;,\;v=50\\ w=6\;,\;h=8\;,\;x=0\;,\;y=16\;,\;v=48\\ w=6\;,\;h=8\;,\;x=6\;,\;y=16\;,\;v=48\\ w=7\;,\;h=6\;,\;x=11\;,\;y=24\;,\;v=42\\ w=6\;,\;h=7\;,\;x=8\;,\;y=0\;,\;v=42\\ w=10\;,\;h=4\;,\;x=6\;,\;y=12\;,\;v=40\\ w=10\;,\;h=4\;,\;x=20\;,\;y=16\;,\;v=40\\ w=8\;,\;h=5\;,\;x=22\;,\;y=0\;,\;v=40\\ w=8\;,\;h=5\;,\;x=22\;,\;y=5\;,\;v=40\\ w=8\;,\;h=5\;,\;x=22\;,\;y=5\;,\;v=40\\ w=6\;,\;h=6\;,\;x=0\;,\;y=24\;,\;v=36\\ w=8\;,\;h=4\;,\;x=22\;,\;y=10\;,\;v=32\\ w=4\;,\;h=8\;,\;x=12\;,\;y=16\;,\;v=32\\ w=4\;,\;h=8\;,\;x=16\;,\;y=16\;,\;v=32\\ w=5\;,\;h=6\;,\;x=6\;,\;y=24\;,\;v=30\\ \end{array}$$

```
w = 7, h = 4, x = 18, y = 26, v = 28
w = 4, h = 7, x = 14, y = 0, v = 28
\mathbf{w} =4 , h =7 , x =18 , y =0 , v =28
w = 4, h = 7, x = 18, y = 7, v = 28
\mathbf{w} =10 , h =6 , x =20 , y =20 , v =60
\le =10 , h =2 , x =17 , y =14 , v =20
w=3 , h=4 , x=25 , y=26 , v=12
```

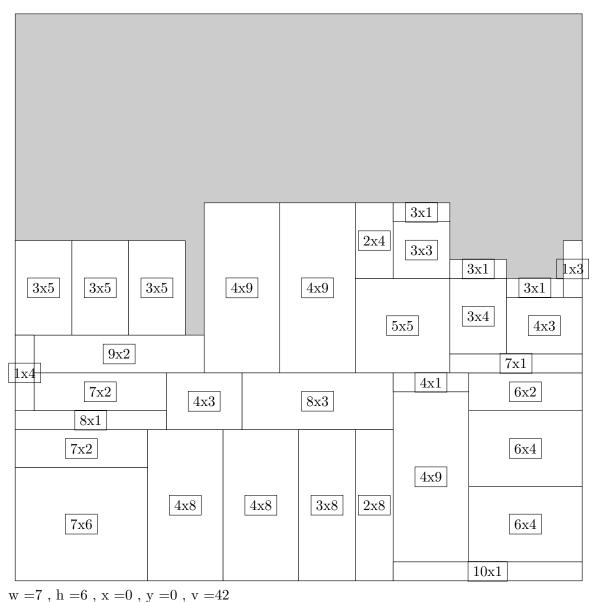
$$w = 2$$
,  $h = 1$ ,  $x = 28$ ,  $y = 26$ ,  $v = 8$ 

$$w = 2$$
,  $h = 4$ ,  $x = 28$ ,  $y = 26$ ,  $v =$ 

$$\mathbf{w}$$
 =1 , h =8 , x =16 , y =7 , v =8

$$w = 2$$
,  $h = 2$ ,  $x = 18$ ,  $y = 24$ ,  $v = 4$ 

$$w = 1$$
,  $h = 1$ ,  $x = 16$ ,  $y = 15$ ,  $v = 1$ 



$$w$$
 =4 , h =9 , x =14 , y =11 , v =36

$$\begin{array}{l} w = \! 4 \ , \ h = \! 8 \ , \ x = \! 7 \ , \ y = \! 0 \ , \ v = \! 32 \\ w = \! 4 \ , \ h = \! 8 \ , \ x = \! 11 \ , \ y = \! 0 \ , \ v = \! 32 \end{array}$$

$$w = 5$$
,  $h = 5$ ,  $x = 18$ ,  $y = 11$ ,  $v = 25$ 

$$w = 3$$
,  $h = 3$ ,  $x = 10$ ,  $y = 11$ ,  $v = 20$   
 $w = 8$ ,  $h = 3$ ,  $x = 12$ ,  $y = 8$ ,  $v = 24$ 

$$w = 6$$
,  $h = 4$ ,  $x = 24$ ,  $y = 1$ ,  $v = 24$ 

$$w = 6$$
,  $h = 4$ ,  $x = 24$ ,  $y = 5$ ,  $v = 24$ 

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

$$w = 9$$
,  $h = 2$ ,  $x = 1$ ,  $y = 11$ ,  $v = 18$ 

$$w = 3$$
,  $h = 2$ ,  $x = 1$ ,  $y = 11$ ,  $v = 16$   
 $w = 2$ ,  $h = 8$ ,  $x = 18$ ,  $y = 0$ ,  $v = 16$ 

$$\mathbf{w}$$
 =3 , h =5 , x =0 , y =13 , v =15

$$w = 3$$
,  $h = 5$ ,  $x = 3$ ,  $y = 13$ ,  $v = 15$ 

$$w = 3$$
,  $h = 5$ ,  $x = 6$ ,  $y = 13$ ,  $v = 15$ 

```
\begin{array}{l} w=7\;,\;h=2\;,\;x=0\;,\;y=6\;,\;v=14\\ w=7\;,\;h=2\;,\;x=1\;,\;y=9\;,\;v=14\\ w=6\;,\;h=2\;,\;x=24\;,\;y=9\;,\;v=12\\ w=4\;,\;h=3\;,\;x=8\;,\;y=8\;,\;v=12\\ w=4\;,\;h=3\;,\;x=26\;,\;y=12\;,\;v=12\\ w=3\;,\;h=4\;,\;x=23\;,\;y=12\;,\;v=12\\ w=10\;,\;h=1\;,\;x=20\;,\;y=0\;,\;v=10\\ w=3\;,\;h=3\;,\;x=20\;,\;y=16\;,\;v=9\\ w=8\;,\;h=1\;,\;x=0\;,\;y=8\;,\;v=8\\ w=2\;,\;h=4\;,\;x=18\;,\;y=16\;,\;v=8\\ w=7\;,\;h=1\;,\;x=23\;,\;y=11\;,\;v=7\\ w=4\;,\;h=1\;,\;x=23\;,\;y=11\;,\;v=7\\ w=4\;,\;h=1\;,\;x=20\;,\;y=10\;,\;v=4\\ w=1\;,\;h=4\;,\;x=0\;,\;y=9\;,\;v=4\\ w=3\;,\;h=1\;,\;x=26\;,\;y=15\;,\;v=3\\ w=3\;,\;h=1\;,\;x=20\;,\;y=19\;,\;v=3\\ \end{array}
```

w = 3, h = 1, x = 23, y = 16, v = 3 w = 1, h = 3, x = 29, y = 15, v = 3