$ClassName: {\bf Class\_02.2bp\text{-}31}$ 

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

TypeNum: <u>57</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2407</u> Rate: <u>0.891</u>

UB: <u>3</u> LB0: <u>3</u> LB: **3** 

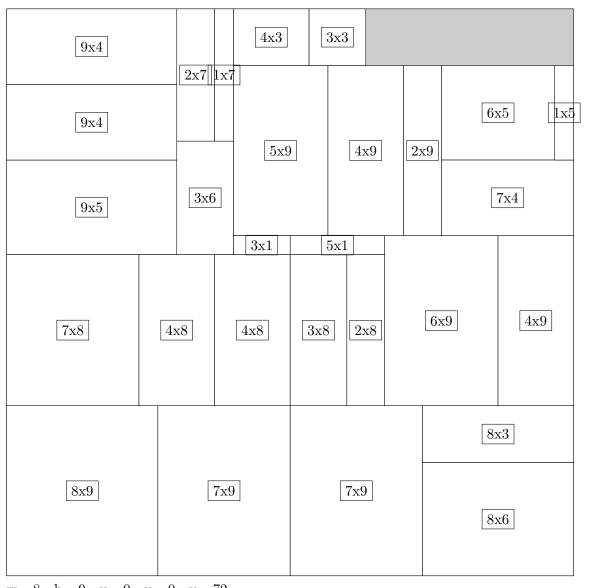
LBWithCut:  $\underline{\mathbf{3}}$ NodeCut:  $\underline{\mathbf{0}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{3}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$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

isOpt: **true** 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 0.125 s

9x2	x10x102x10 7x10	[10x5]
9x8	7.10	10x8
9x10	8x10 3x10	10x8
[10x10]	10x10	10x9

```
\begin{array}{l} w=10\;,\; h=10\;,\; x=0\;,\; y=0\;,\; v=100\\ w=10\;,\; h=10\;,\; x=10\;,\; y=0\;,\; v=100\\ w=10\;,\; h=9\;,\; x=20\;,\; y=0\;,\; v=90\\ w=9\;,\; h=10\;,\; x=0\;,\; y=10\;,\; v=90\\ w=10\;,\; h=8\;,\; x=20\;,\; y=9\;,\; v=80\\ w=10\;,\; h=8\;,\; x=20\;,\; y=17\;,\; v=80\\ w=8\;,\; h=10\;,\; x=9\;,\; y=10\;,\; v=80\\ w=9\;,\; h=8\;,\; x=0\;,\; y=20\;,\; v=72\\ w=7\;,\; h=10\;,\; x=13\;,\; y=20\;,\; v=72\\ w=7\;,\; h=10\;,\; x=13\;,\; y=20\;,\; v=70\\ w=10\;,\; h=5\;,\; x=20\;,\; y=25\;,\; v=50\\ w=3\;,\; h=10\;,\; x=17\;,\; y=10\;,\; v=30\\ w=2\;,\; h=10\;,\; x=11\;,\; y=20\;,\; v=20\\ w=9\;,\; h=2\;,\; x=0\;,\; y=28\;,\; v=18\\ w=1\;,\; h=10\;,\; x=10\;,\; y=20\;,\; v=10\\ w=1\;,\; h=10\;,\; x=9\;,\; y=20\;,\; v=10\\ \end{array}
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```
w =8, h =9, x =0, y =0, v =72
w =7, h =9, x =8, y =0, v =63
```

$$\mathbf{w}$$
 =7 , h =9 , x =15 , y =0 , v =63

$$w$$
 =7 , h =8 , x =0 , y =9 , v =  
56

$$w = 6$$
,  $h = 9$ ,  $x = 20$ ,  $y = 9$ ,  $v = 54$ 

$$w = 8$$
,  $h = 6$ ,  $x = 22$ ,  $y = 0$ ,  $v = 48$ 

$$\le =9$$
 , h =5 , x =0 , y =17 , v =45

$$w = 5$$
,  $h = 9$ ,  $x = 12$ ,  $y = 18$ ,  $v = 45$ 

$$w = 9$$
,  $h = 4$ ,  $x = 0$ ,  $y = 22$ ,  $v = 36$ 

$$w$$
 =4 , h =9 , x =17 , y =18 , v =36

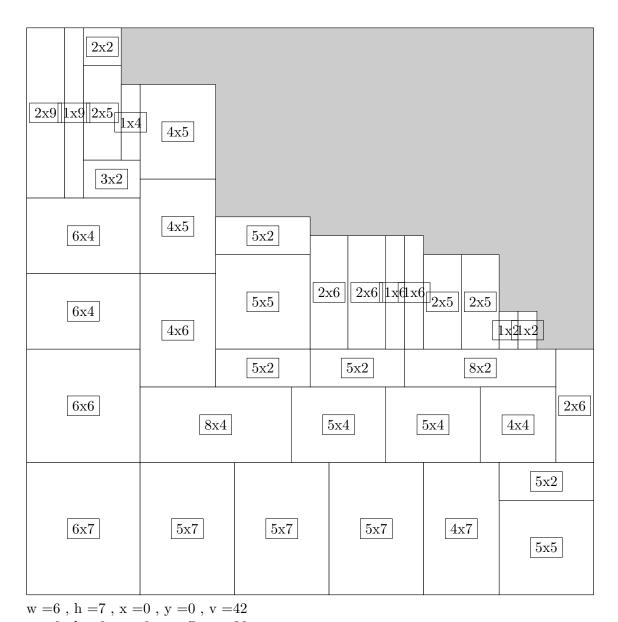
$$w = 4$$
,  $h = 8$ ,  $x = 7$ ,  $y = 9$ ,  $v = 32$   
 $w = 4$ ,  $h = 8$ ,  $x = 11$ ,  $y = 9$ ,  $v = 32$ 

$$w = 6$$
,  $h = 5$ ,  $x = 23$ ,  $y = 22$ ,  $v = 30$ 

$$w = 7$$
,  $h = 4$ ,  $x = 23$ ,  $y = 18$ ,  $v = 28$ 

```
\begin{array}{l} w=8 \;,\; h=3 \;,\; x=22 \;,\; y=6 \;,\; v=24 \\ w=3 \;,\; h=8 \;,\; x=15 \;,\; y=9 \;,\; v=24 \\ w=3 \;,\; h=6 \;,\; x=9 \;,\; y=17 \;,\; v=18 \\ w=2 \;,\; h=9 \;,\; x=21 \;,\; y=18 \;,\; v=18 \\ w=2 \;,\; h=8 \;,\; x=18 \;,\; y=9 \;,\; v=16 \\ w=2 \;,\; h=7 \;,\; x=9 \;,\; y=23 \;,\; v=14 \\ w=4 \;,\; h=3 \;,\; x=12 \;,\; y=27 \;,\; v=12 \\ w=3 \;,\; h=3 \;,\; x=16 \;,\; y=27 \;,\; v=9 \\ w=1 \;,\; h=7 \;,\; x=11 \;,\; y=23 \;,\; v=7 \\ w=5 \;,\; h=1 \;,\; x=15 \;,\; y=17 \;,\; v=5 \end{array}
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 $\begin{array}{l} w = 1 \ , \ h = 5 \ , \ x = 29 \ , \ y = 22 \ , \ v = 5 \\ w = 3 \ , \ h = 1 \ , \ x = 12 \ , \ y = 17 \ , \ v = 3 \end{array}$ 



$$\begin{array}{l} w=6\;,\; h=6\;,\; x=0\;,\; y=7\;,\; v=36\\ w=5\;,\; h=7\;,\; x=6\;,\; y=0\;,\; v=35\\ w=5\;,\; h=7\;,\; x=11\;,\; y=0\;,\; v=35\\ w=5\;,\; h=7\;,\; x=16\;,\; y=0\;,\; v=35\\ w=8\;,\; h=4\;,\; x=6\;,\; y=7\;,\; v=32\\ w=2\;,\; h=6\;,\; x=28\;,\; y=7\;,\; v=12\\ w=5\;,\; h=5\;,\; x=25\;,\; y=0\;,\; v=25\\ w=5\;,\; h=5\;,\; x=10\;,\; y=13\;,\; v=25\\ w=6\;,\; h=4\;,\; x=0\;,\; y=13\;,\; v=24\\ w=6\;,\; h=4\;,\; x=0\;,\; y=17\;,\; v=24\\ w=6\;,\; h=4\;,\; x=0\;,\; y=17\;,\; v=24\\ w=4\;,\; h=6\;,\; x=6\;,\; y=11\;,\; v=24\\ w=5\;,\; h=4\;,\; x=14\;,\; y=7\;,\; v=20\\ w=5\;,\; h=4\;,\; x=19\;,\; y=7\;,\; v=20\\ w=4\;,\; h=5\;,\; x=6\;,\; y=17\;,\; v=20\\ w=4\;,\; h=5\;,\; x=6\;,\; y=22\;,\; v=20\\ \end{array}$$

```
w = 2, h = 9, x = 0, y = 21, v = 18
w = 8, h = 2, x = 20, y = 11, v = 16
w = 4, h = 4, x = 24, y = 7, v = 16
w = 2, h = 6, x = 15, y = 13, v = 12
w = 4, h = 7, x = 21, y = 0, v = 28
w = 2, h = 6, x = 17, y = 13, v = 12
w = 5, h = 2, x = 25, y = 5, v = 10
w=\!5 , h=\!2 , x=\!15 , y=\!11 , v=\!10
w = 5, h = 2, x = 10, y = 11, v = 10
w = 5, h = 2, x = 10, y = 18, v = 10
w = 2, h = 5, x = 3, y = 23, v = 10
w = 2, h = 5, x = 21, y = 13, v = 10
w = 2, h = 5, x = 23, y = 13, v = 10
w = 1, h = 9, x = 2, y = 21, v = 9
w = 3, h = 2, x = 3, y = 21, v = 6
w = 1, h = 6, x = 19, y = 13, v = 6
w = 1, h = 6, x = 20, y = 13, v = 6
w = 2, h = 2, x = 3, y = 28, v = 4
w = 1, h = 4, x = 5, y = 23, v = 4
w = 1, h = 2, x = 25, y = 13, v = 2
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w = 1, h = 2, x = 26, y = 13, v = 2