$ClassName: \ Class\_02.2bp\text{-}38$ 

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

TypeNum: <u>61</u> Num: <u>80</u> OutS: <u>3600</u> InS: <u>2787</u> Rate: <u>0.774</u>

UB: <u>4</u> LB0: <u>4</u> LB: 4

LBWithCut:  $\underline{\mathbf{4}}$  NodeCut:  $\underline{\mathbf{0}}$ 

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

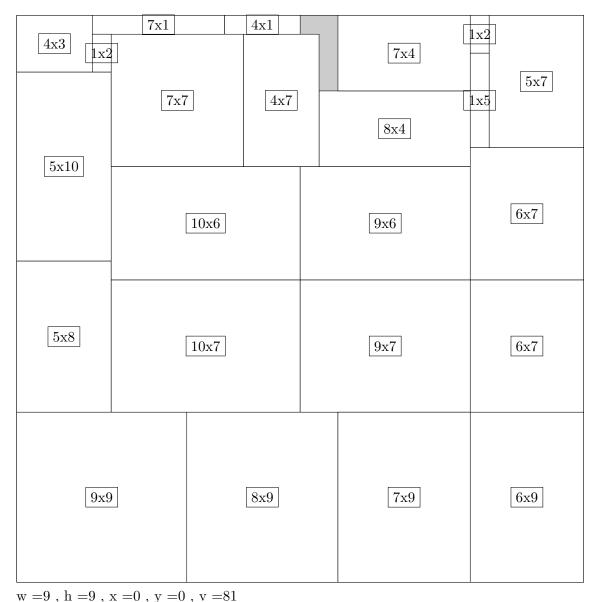
GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{4}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt: **true** 

TimeOnInitSolution: 0.000 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.094 sTotalTime: 0.187 s

[10x3]			]
[10x8]	7x10 1x10	[6x8]	6x9
[10x9]	9x10	5x10	6x9
10x10	9x10	9x10 2x10	

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w = 10, h = 10, x = 0, y = 0, v = 100
w=\!10 , h=\!9 , x=\!0 , y=\!10 , v=\!90
w = 9, h = 10, x = 10, y = 0, v = 90
\mathbf{w} =9 , h =10 , x =19 , y =0 , v =90
w = 9, h = 10, x = 10, y = 10, v = 90
\mathbf{w} =10 , \mathbf{h} =8 , \mathbf{x} =0 , \mathbf{y} =19 , \mathbf{v} =80
w = 7, h = 10, x = 10, y = 20, v = 70
w = 6, h = 9, x = 24, y = 10, v = 54
w = 6, h = 9, x = 24, y = 19, v = 54
w = 5, h = 10, x = 19, y = 10, v = 50
w = 6, h = 8, x = 18, y = 20, v = 48
w = 10, h = 3, x = 0, y = 27, v = 30
w = 10, h = 2, x = 18, y = 28, v = 20
w = 2, h = 10, x = 28, y = 0, v = 20
w = 1, h = 10, x = 17, y = 20, v = 10
\mathbf{w} =2 , h =1 , x =28 , y =28 , v =2
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w =5, h =8, x =0, y =9, v =40

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

w =10, h =7, x =5, y =9, v =63

w =9, h =7, x =15, y =9, v =63

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

w =10, h =6, x =5, y =16, v =60

w =9, h =6, x =15, y =16, v =54

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

w =5, h =10, x =0, y =17, v =50

w =7, h =7, x =5, y =22, v =49

w =6, h =7, x =24, y =9, v =42

w =6, h =7, x =24, y =16, v =42

w =5, h =7, x =24, y =16, v =42

w =5, h =7, x =25, y =23, v =35

w =8, h =4, x =16, y =22, v =32

w =7, h =4, x =17, y =26, v =28
```

 $\mathbf{w}$  =4 , h =7 , x =12 , y =22 , v =28

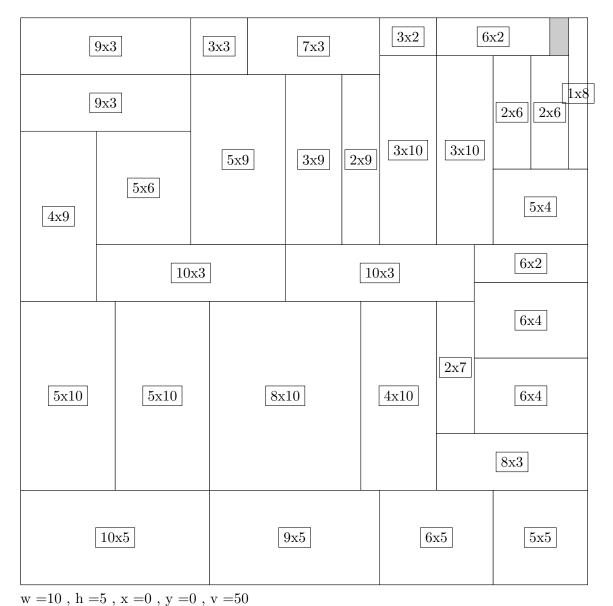
w = 4, h = 3, x = 0, y = 27, v = 12 $\mathbf{w}$  =7 , h =1 , x =4 , y =29 , v =7

 $\mathbf{w}$  =1 , h =5 , x =24 , y =23 , v =5

 $\mathbf{w}$  =4 , h =1 , x =11 , y =29 , v =4

 $\mathbf{w}$  =1 , h =2 , x =4 , y =27 , v =2

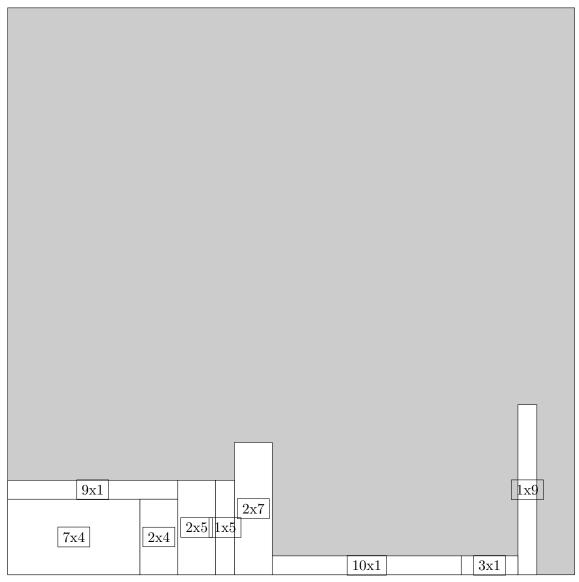
 $\mathbf{w}$  =1 , h =2 , x =24 , y =28 , v =2



```
\begin{array}{l} w=5 \;,\; h=10 \;,\; x=0 \;,\; y=5 \;,\; v=50 \\ w=5 \;,\; h=10 \;,\; x=5 \;,\; y=5 \;,\; v=50 \\ w=9 \;,\; h=5 \;,\; x=10 \;,\; y=0 \;,\; v=45 \\ w=5 \;,\; h=9 \;,\; x=9 \;,\; y=18 \;,\; v=45 \\ w=8 \;,\; h=10 \;,\; x=10 \;,\; y=5 \;,\; v=80 \\ w=4 \;,\; h=10 \;,\; x=18 \;,\; y=5 \;,\; v=40 \\ w=4 \;,\; h=9 \;,\; x=0 \;,\; y=15 \;,\; v=36 \\ w=10 \;,\; h=3 \;,\; x=14 \;,\; y=15 \;,\; v=30 \\ w=10 \;,\; h=3 \;,\; x=4 \;,\; y=15 \;,\; v=30 \\ w=6 \;,\; h=5 \;,\; x=19 \;,\; y=0 \;,\; v=30 \\ w=5 \;,\; h=6 \;,\; x=4 \;,\; y=18 \;,\; v=30 \\ w=3 \;,\; h=10 \;,\; x=19 \;,\; y=18 \;,\; v=30 \\ w=3 \;,\; h=10 \;,\; x=22 \;,\; y=18 \;,\; v=30 \\ w=9 \;,\; h=3 \;,\; x=0 \;,\; y=24 \;,\; v=27 \\ w=9 \;,\; h=3 \;,\; x=0 \;,\; y=27 \;,\; v=27 \end{array}
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\begin{array}{l} w=3\;,\;h=9\;,\;x=14\;,\;y=18\;,\;v=27\\ w=5\;,\;h=5\;,\;x=25\;,\;y=0\;,\;v=25\\ w=8\;,\;h=3\;,\;x=22\;,\;y=5\;,\;v=24\\ w=6\;,\;h=4\;,\;x=24\;,\;y=8\;,\;v=24\\ w=6\;,\;h=4\;,\;x=24\;,\;y=12\;,\;v=24\\ w=7\;,\;h=3\;,\;x=12\;,\;y=27\;,\;v=21\\ w=5\;,\;h=4\;,\;x=25\;,\;y=18\;,\;v=20\\ w=2\;,\;h=9\;,\;x=17\;,\;y=18\;,\;v=18\\ w=2\;,\;h=7\;,\;x=22\;,\;y=8\;,\;v=14\\ w=6\;,\;h=2\;,\;x=24\;,\;y=16\;,\;v=12\\ w=6\;,\;h=2\;,\;x=24\;,\;y=16\;,\;v=12\\ w=6\;,\;h=2\;,\;x=22\;,\;y=28\;,\;v=12\\ w=2\;,\;h=6\;,\;x=25\;,\;y=22\;,\;v=12\\ w=2\;,\;h=6\;,\;x=25\;,\;y=22\;,\;v=12\\ w=2\;,\;h=6\;,\;x=27\;,\;y=22\;,\;v=12\\ w=3\;,\;h=3\;,\;x=9\;,\;y=27\;,\;v=9\\ w=1\;,\;h=8\;,\;x=29\;,\;y=22\;,\;v=8\\ \end{array}
```

w = 3, h = 2, x = 19, y = 28, v = 6



$$\begin{array}{l} w=7\ ,\ h=4\ ,\ x=0\ ,\ y=0\ ,\ v=28\\ w=2\ ,\ h=7\ ,\ x=12\ ,\ y=0\ ,\ v=14\\ w=10\ ,\ h=1\ ,\ x=14\ ,\ y=0\ ,\ v=10\\ w=2\ ,\ h=5\ ,\ x=9\ ,\ y=0\ ,\ v=10\\ w=9\ ,\ h=1\ ,\ x=0\ ,\ y=4\ ,\ v=9\\ w=1\ ,\ h=9\ ,\ x=27\ ,\ y=0\ ,\ v=9\\ w=2\ ,\ h=4\ ,\ x=7\ ,\ y=0\ ,\ v=8\\ w=1\ ,\ h=5\ ,\ x=11\ ,\ y=0\ ,\ v=5\\ w=3\ ,\ h=1\ ,\ x=24\ ,\ y=0\ ,\ v=3\\ \end{array}$$