$ClassName: \ Class\_02.2bp\text{-}39$ 

 $\begin{array}{ccc} \text{BinSize: } \underline{30} & \overline{\times} & \underline{30} \\ \text{ReduceSize: } \underline{30} & \times & \underline{30} \end{array}$ 

TypeNum:  $\underline{58}$ Num:  $\underline{80}$ OutS:  $\underline{2700}$ InS:  $\underline{2426}$ Rate:  $\underline{0.899}$ 

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

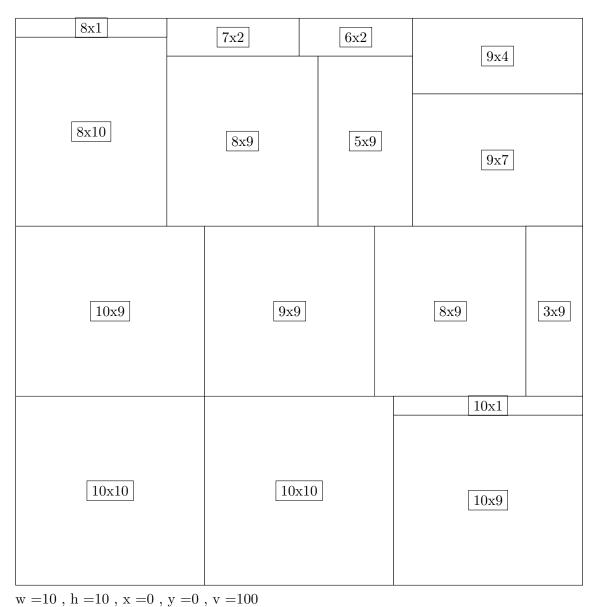
LBWithCut:  $\underline{\mathbf{3}}$  NodeCut:  $\underline{\mathbf{0}}$ 

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

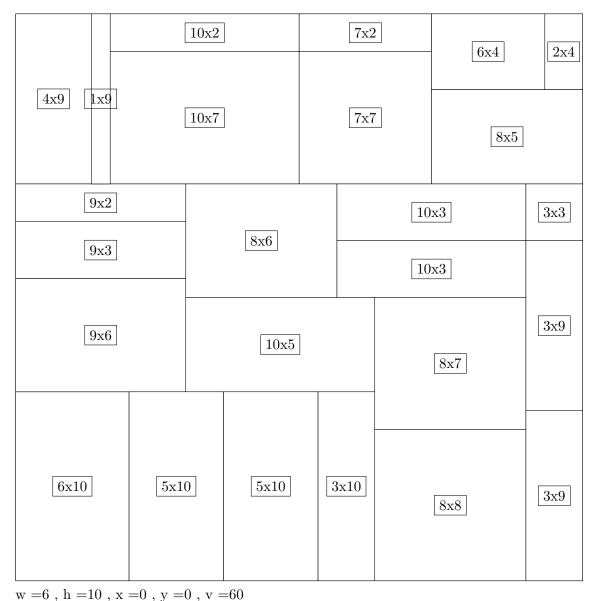
GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{3}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

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

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.070 \ s} \\ {\rm TotalTime:} \ \underline{0.132 \ s} \end{array}$ 



```
w =10, h =10, x =10, y =0, v =100
w =10, h =9, x =20, y =0, v =90
w =10, h =9, x =0, y =10, v =90
w =9, h =9, x =10, y =10, v =81
w =8, h =10, x =0, y =19, v =80
w =8, h =9, x =19, y =10, v =72
w =8, h =9, x =8, y =19, v =72
w =9, h =7, x =21, y =19, v =63
w =5, h =9, x =16, y =19, v =45
w =9, h =4, x =21, y =26, v =36
w =3, h =9, x =27, y =10, v =27
w =7, h =2, x =8, y =28, v =14
w =6, h =2, x =15, y =28, v =12
w =10, h =1, x =20, y =9, v =8
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w = 8, h = 8, x = 19, y = 0, v = 64

w = 10, h = 7, x = 5, y = 21, v = 70

w = 8, h = 7, x = 19, y = 8, v = 56

w = 9, h = 6, x = 0, y = 10, v = 54

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

w = 5, h = 10, x = 6, y = 0, v = 50

w = 5, h = 10, x = 11, y = 0, v = 50

w = 7, h = 7, x = 15, y = 21, v = 49

w = 8, h = 6, x = 9, y = 15, v = 48

w = 8, h = 5, x = 22, y = 21, v = 40

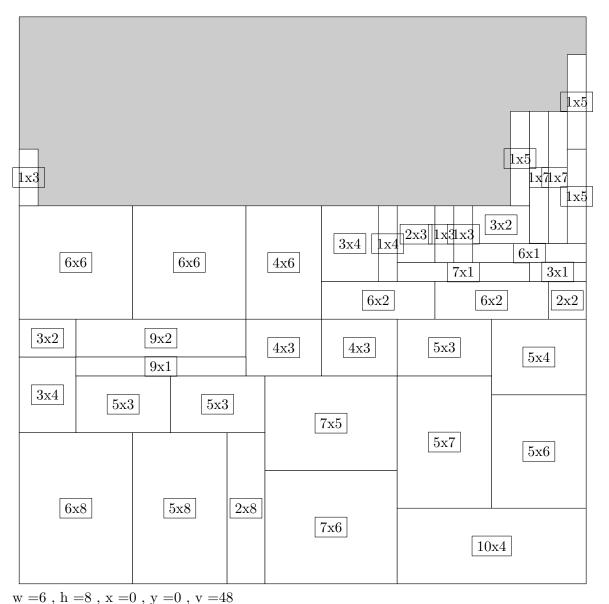
w = 4, h = 9, x = 0, y = 21, v = 36

w = 10, h = 3, x = 17, y = 15, v = 30

w = 3, h = 10, x = 16, y = 0, v = 30

w = 9, h = 3, x = 0, y = 16, v = 27
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 $\begin{array}{l} w=3\ ,\, h=9\ ,\, x=27\ ,\, y=0\ ,\, v=27\\ w=3\ ,\, h=9\ ,\, x=27\ ,\, y=9\ ,\, v=27\\ w=6\ ,\, h=4\ ,\, x=22\ ,\, y=26\ ,\, v=24\\ w=10\ ,\, h=2\ ,\, x=5\ ,\, y=28\ ,\, v=20\\ w=9\ ,\, h=2\ ,\, x=0\ ,\, y=19\ ,\, v=18\\ w=7\ ,\, h=2\ ,\, x=15\ ,\, y=28\ ,\, v=14\\ w=3\ ,\, h=3\ ,\, x=27\ ,\, y=18\ ,\, v=9\\ w=1\ ,\, h=9\ ,\, x=4\ ,\, y=21\ ,\, v=9\\ w=2\ ,\, h=4\ ,\, x=28\ ,\, y=26\ ,\, v=8\\ \end{array}$ 



$$\begin{array}{l} w=7\;,\; h=6\;,\; x=13\;,\; y=0\;,\; v=42\\ w=10\;,\; h=4\;,\; x=20\;,\; y=0\;,\; v=40\\ w=5\;,\; h=8\;,\; x=6\;,\; y=0\;,\; v=40\\ w=6\;,\; h=6\;,\; x=6\;,\; y=14\;,\; v=36\\ w=6\;,\; h=6\;,\; x=6\;,\; y=14\;,\; v=36\\ w=7\;,\; h=5\;,\; x=13\;,\; y=6\;,\; v=35\\ w=5\;,\; h=7\;,\; x=20\;,\; y=4\;,\; v=35\\ w=5\;,\; h=6\;,\; x=25\;,\; y=4\;,\; v=30\\ w=4\;,\; h=6\;,\; x=12\;,\; y=14\;,\; v=24\\ w=5\;,\; h=4\;,\; x=25\;,\; y=10\;,\; v=20\\ w=9\;,\; h=2\;,\; x=3\;,\; y=12\;,\; v=18\\ w=2\;,\; h=8\;,\; x=11\;,\; y=0\;,\; v=16\\ w=5\;,\; h=3\;,\; x=8\;,\; y=8\;,\; v=15\\ w=5\;,\; h=3\;,\; x=3\;,\; y=8\;,\; v=15\\ w=5\;,\; h=3\;,\; x=20\;,\; y=11\;,\; v=15\\ \end{array}$$

```
w = 6, h = 2, x = 16, y = 14, v = 12
w = 6, h = 2, x = 22, y = 14, v = 12
w = 4, h = 3, x = 16, y = 11, v = 12
w = 4, h = 3, x = 12, y = 11, v = 12
w = 3, h = 4, x = 0, y = 8, v = 12
w = 3, h = 4, x = 16, y = 16, v = 12
w = 9, h = 1, x = 3, y = 11, v = 9
w =7 , h =1 , x =20 , y =16 , v =7
w = 1, h = 7, x = 27, y = 18, v = 7
w = 1, h = 7, x = 28, y = 18, v = 7
w = 6, h = 1, x = 24, y = 17, v = 6
w = 3, h = 2, x = 0, y = 12, v = 6
w = 3, h = 2, x = 24, y = 18, v = 6
w = 2, h = 3, x = 20, y = 17, v = 6
w = 1, h = 5, x = 29, y = 18, v = 5
w = 1, h = 5, x = 29, y = 23, v = 5
w = 1, h = 5, x = 26, y = 20, v = 5
w = 2, h = 2, x = 28, y = 14, v = 4
w = 1, h = 4, x = 19, y = 16, v = 4
\le =3 , h =1 , x =27 , y =16 , v =3
w = 1, h = 3, x = 22, y = 17, v = 3
w = 1, h = 3, x = 23, y = 17, v = 3
\mathbf{w} =1 , h =3 , x =0 , y =20 , v =3
```