$ClassName: \ Class_02.2bp-34$

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

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**

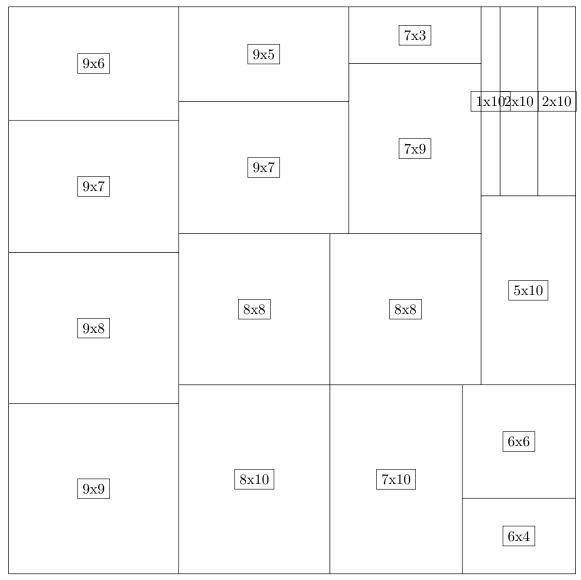
LBWithCut: $\underline{\mathbf{3}}$ NodeCut: $\underline{\mathbf{0}}$

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

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

TimeOnInitSolution: 0.010 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.150 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

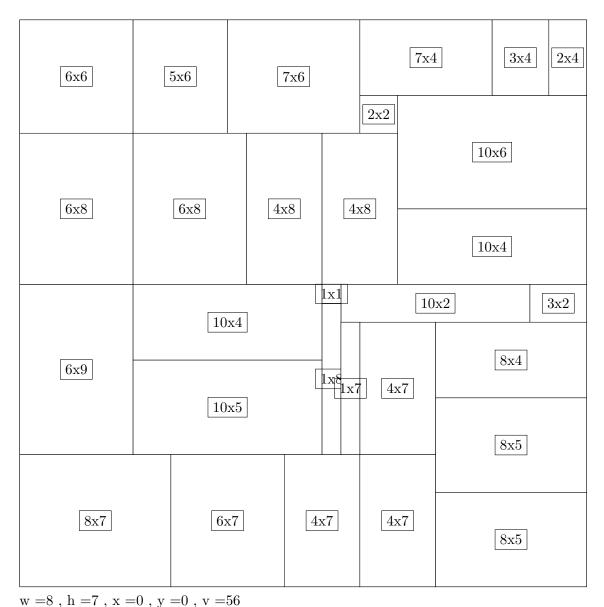
$$w = 9$$
, $h = 5$, $x = 9$, $y = 25$, $v = 45$

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

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

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

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



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

```
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
```

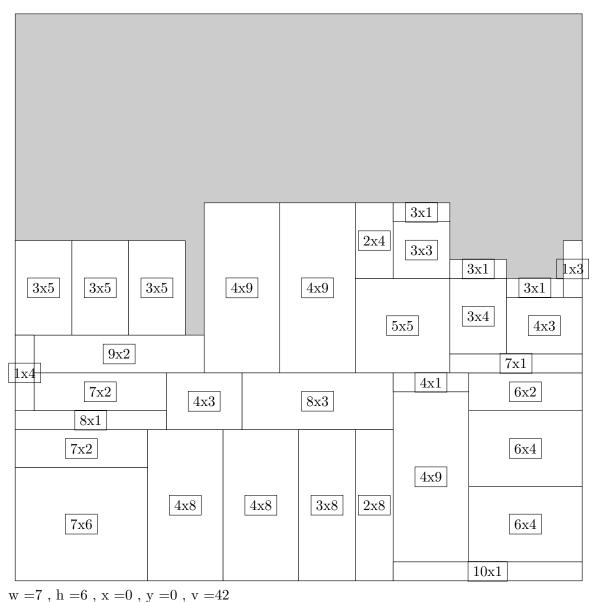
$$w = 2$$
, $h = 1$, $x = 28$, $y = 26$, $v = 8$

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

$$\mathbf{w}$$
 =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