$ClassName: \ Class\_02.2bp-32$ 

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

TypeNum: <u>58</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2298</u> Rate: <u>0.851</u>

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

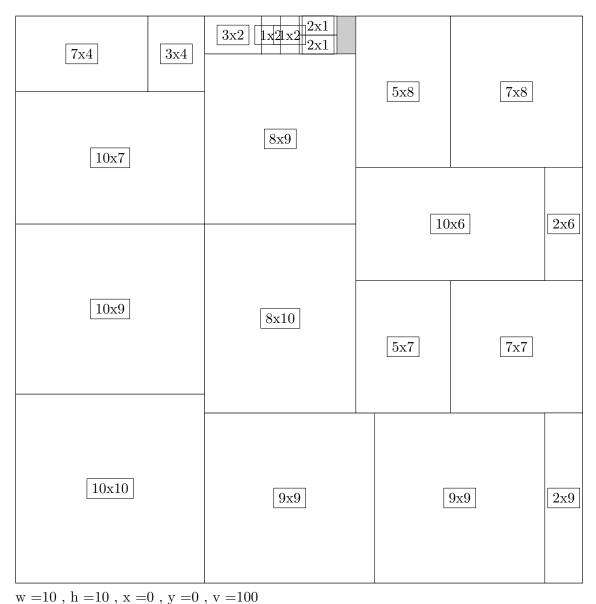
LBWithCut:  $\underline{\mathbf{3}}$  NodeCut:  $\underline{\mathbf{0}}$ 

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

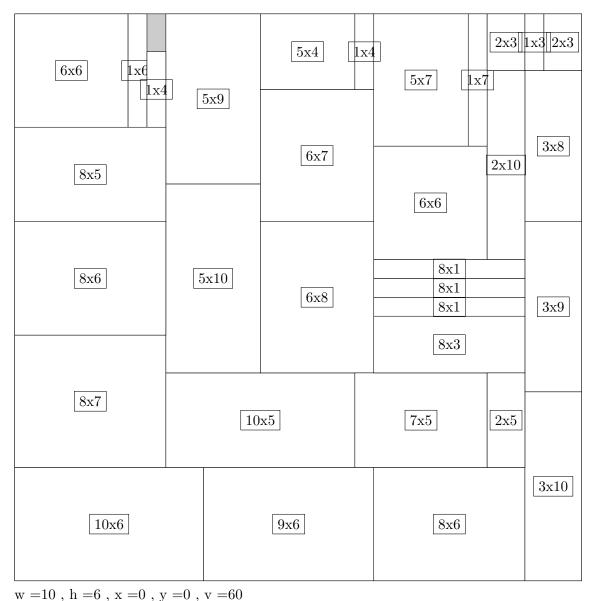
isOpt: **true** 

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.063 \ s} \\ {\rm TotalTime:} \ \underline{0.141 \ s} \end{array}$ 



```
w =10, h =10, x =0, y =0, v =100
w =10, h =9, x =0, y =10, v =90
w =9, h =9, x =10, y =0, v =81
w =9, h =9, x =19, y =0, v =81
w =8, h =10, x =10, y =9, v =80
w =8, h =9, x =10, y =19, v =72
w =10, h =7, x =0, y =19, v =70
w =5, h =7, x =18, y =9, v =35
w =10, h =6, x =18, y =16, v =60
w =7, h =8, x =23, y =22, v =56
w =7, h =7, x =23, y =9, v =49
w =5, h =8, x =18, y =22, v =40
w =7, h =4, x =0, y =26, v =28
w =2, h =9, x =28, y =0, v =18
w =3, h =4, x =7, y =26, v =12
w =2, h =6, x =28, y =16, v =12
```

 $\begin{array}{l} w = 3 \ , \ h = 2 \ , \ x = 10 \ , \ y = 28 \ , \ v = 6 \\ w = 2 \ , \ h = 1 \ , \ x = 15 \ , \ y = 28 \ , \ v = 2 \\ w = 2 \ , \ h = 1 \ , \ x = 15 \ , \ y = 29 \ , \ v = 2 \\ w = 1 \ , \ h = 2 \ , \ x = 13 \ , \ y = 28 \ , \ v = 2 \\ w = 1 \ , \ h = 2 \ , \ x = 14 \ , \ y = 28 \ , \ v = 2 \end{array}$ 



```
w =8 , h =7 , x =0 , y =6 , v =56

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

w =10 , h =5 , x =8 , y =6 , v =50

w =5 , h =10 , x =8 , y =11 , v =50

w =8 , h =6 , x =19 , y =0 , v =48

w =8 , h =6 , x =0 , y =13 , v =48

w =6 , h =8 , x =13 , y =11 , v =48

w =5 , h =9 , x =8 , y =21 , v =45

w =6 , h =7 , x =13 , y =19 , v =42

w =8 , h =5 , x =0 , y =19 , v =40

w =6 , h =6 , x =0 , y =24 , v =36

w =6 , h =6 , x =19 , y =17 , v =36

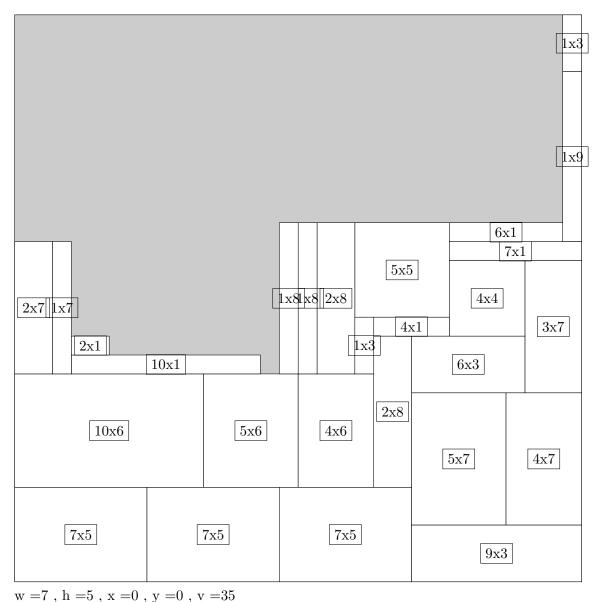
w =7 , h =5 , x =18 , y =6 , v =35

w =5 , h =7 , x =19 , y =23 , v =35

w =3 , h =10 , x =27 , y =0 , v =30
```

```
\begin{array}{l} w=3\ ,\ h=9\ ,\ x=27\ ,\ y=10\ ,\ v=27\\ w=8\ ,\ h=3\ ,\ x=19\ ,\ y=11\ ,\ v=24\\ w=3\ ,\ h=8\ ,\ x=27\ ,\ y=19\ ,\ v=24\\ w=5\ ,\ h=4\ ,\ x=13\ ,\ y=26\ ,\ v=20\\ w=2\ ,\ h=10\ ,\ x=25\ ,\ y=17\ ,\ v=20\\ w=2\ ,\ h=5\ ,\ x=25\ ,\ y=6\ ,\ v=10\\ w=8\ ,\ h=1\ ,\ x=19\ ,\ y=14\ ,\ v=8\\ w=8\ ,\ h=1\ ,\ x=19\ ,\ y=15\ ,\ v=8\\ w=8\ ,\ h=1\ ,\ x=19\ ,\ y=16\ ,\ v=8\\ w=8\ ,\ h=1\ ,\ x=19\ ,\ y=16\ ,\ v=8\\ w=1\ ,\ h=7\ ,\ x=24\ ,\ y=23\ ,\ v=7\\ w=2\ ,\ h=3\ ,\ x=28\ ,\ y=27\ ,\ v=6\\ w=2\ ,\ h=3\ ,\ x=25\ ,\ y=27\ ,\ v=6\\ w=1\ ,\ h=6\ ,\ x=6\ ,\ y=24\ ,\ v=6\\ w=1\ ,\ h=4\ ,\ x=7\ ,\ y=24\ ,\ v=4\\ w=1\ ,\ h=4\ ,\ x=18\ ,\ y=26\ ,\ v=4\\ \end{array}
```

w = 1, h = 3, x = 27, y = 27, v = 3



```
w = 7, h = 5, x = 7, y = 0, v = 35

w = 7, h = 5, x = 14, y = 0, v = 35

w = 10, h = 6, x = 0, y = 5, v = 60

w = 5, h = 7, x = 21, y = 3, v = 35

w = 5, h = 6, x = 10, y = 5, v = 30

w = 4, h = 7, x = 26, y = 3, v = 28

w = 9, h = 3, x = 21, y = 0, v = 27

w = 5, h = 5, x = 18, y = 14, v = 25

w = 4, h = 6, x = 15, y = 5, v = 24

w = 3, h = 7, x = 27, y = 10, v = 21

w = 6, h = 3, x = 21, y = 10, v = 18

w = 4, h = 4, x = 23, y = 13, v = 16

w = 2, h = 8, x = 16, y = 11, v = 16

w = 2, h = 7, x = 0, y = 11, v = 14
```

```
\begin{array}{l} w=10\;,\;h=1\;,\;x=3\;,\;y=11\;,\;v=10\\ w=1\;,\;h=9\;,\;x=29\;,\;y=18\;,\;v=9\\ w=1\;,\;h=8\;,\;x=15\;,\;y=11\;,\;v=8\\ w=1\;,\;h=8\;,\;x=14\;,\;y=11\;,\;v=8\\ w=7\;,\;h=1\;,\;x=23\;,\;y=17\;,\;v=7\\ w=1\;,\;h=7\;,\;x=2\;,\;y=11\;,\;v=7\\ w=6\;,\;h=1\;,\;x=23\;,\;y=18\;,\;v=6\\ w=4\;,\;h=1\;,\;x=19\;,\;y=13\;,\;v=4\\ w=1\;,\;h=3\;,\;x=18\;,\;y=11\;,\;v=3\\ w=1\;,\;h=3\;,\;x=29\;,\;y=27\;,\;v=3\\ w=2\;,\;h=1\;,\;x=3\;,\;y=12\;,\;v=2\\ \end{array}
```