$ClassName: \ Class\_02.2bp\text{-}35$ 

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

TypeNum: <u>55</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2521</u> Rate: <u>0.934</u>

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

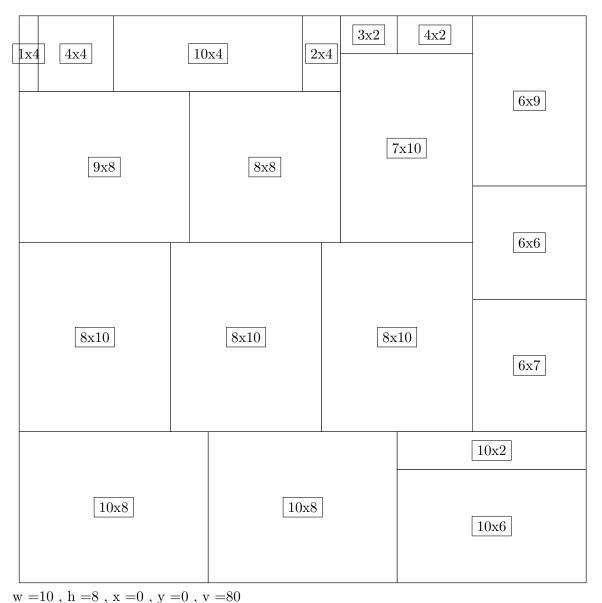
LBWithCut:  $\underline{\mathbf{3}}$  NodeCut:  $\underline{\mathbf{0}}$ 

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: **true** 

TimeOnInitSolution: 0.000 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 0.125 s



```
w =10, h =8, x =0, y =0, v =80

w =10, h =8, x =10, y =0, v =80

w =8, h =10, x =0, y =8, v =80

w =8, h =10, x =16, y =8, v =80

w =8, h =10, x =16, y =8, v =80

w =9, h =8, x =0, y =18, v =72

w =7, h =10, x =17, y =18, v =70

w =8, h =8, x =9, y =18, v =64

w =10, h =6, x =20, y =0, v =60

w =2, h =4, x =15, y =26, v =8

w =6, h =7, x =24, y =8, v =42

w =10, h =4, x =5, y =26, v =40

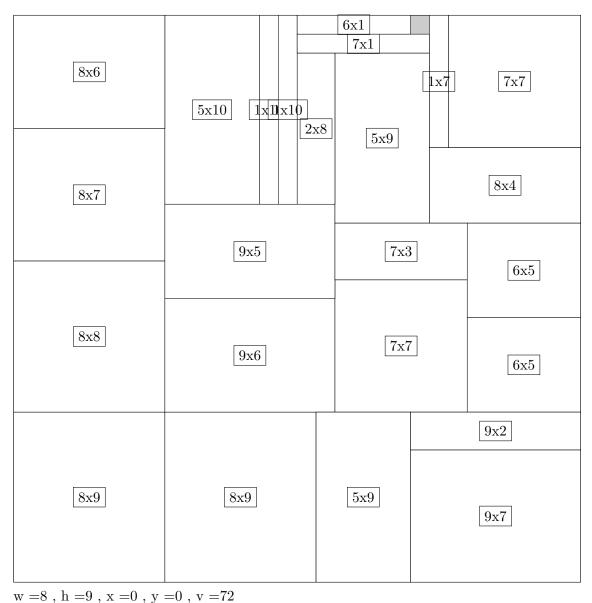
w =6, h =6, x =24, y =15, v =36

w =10, h =2, x =20, y =6, v =20

w =4, h =4, x =1, y =26, v =16

w =4, h =2, x =20, y =28, v =8
```

 $\begin{array}{l} w=6 \ , \ h=9 \ , \ x=24 \ , \ y=21 \ , \ v=54 \\ w=3 \ , \ h=2 \ , \ x=17 \ , \ y=28 \ , \ v=6 \\ w=1 \ , \ h=4 \ , \ x=0 \ , \ y=26 \ , \ v=4 \end{array}$ 



$$w = 9$$
,  $h = 7$ ,  $x = 21$ ,  $y = 0$ ,  $v = 63$ 

$$w = 9$$
,  $h = 6$ ,  $x = 8$ ,  $y = 9$ ,  $v = 54$ 

$$w$$
 =5 ,  $h$  =10 ,  $x$  =8 ,  $y$  =20 ,  $v$  =50

$$w$$
 =7 ,  $h$  =7 ,  $x$  =17 ,  $y$  =9 ,  $v$  =49

$$w = 7$$
,  $h = 7$ ,  $x = 23$ ,  $y = 23$ ,  $v = 49$ 

$$w$$
 =8 , h =6 , x =0 , y =24 , v =48

$$\le =9$$
 , h =5 , x =8 , y =15 , v =45

$$w = 5$$
 ,  $h = 9$  ,  $x = 16$  ,  $y = 0$  ,  $v = 45$ 

$$w$$
 =5 ,  $h$  =9 ,  $x$  =17 ,  $y$  =19 ,  $v$  =45

$$w = 8$$
,  $h = 4$ ,  $x = 22$ ,  $y = 19$ ,  $v = 32$ 

$$w$$
 =6 , h =5 , x =24 , y =9 , v =30

$$\mathbf{w}$$
 =6 , h =5 , x =24 , y =14 , v =30

w=7 , h=3 ,  $x=\!17$  ,  $y=\!16$  ,  $v=\!21$ 

 $\mathbf{w}$  =9 , h =2 , x =21 , y =7 , v =18

 $\mathbf{w}$  =2 , h =8 , x =15 , y =20 , v =16

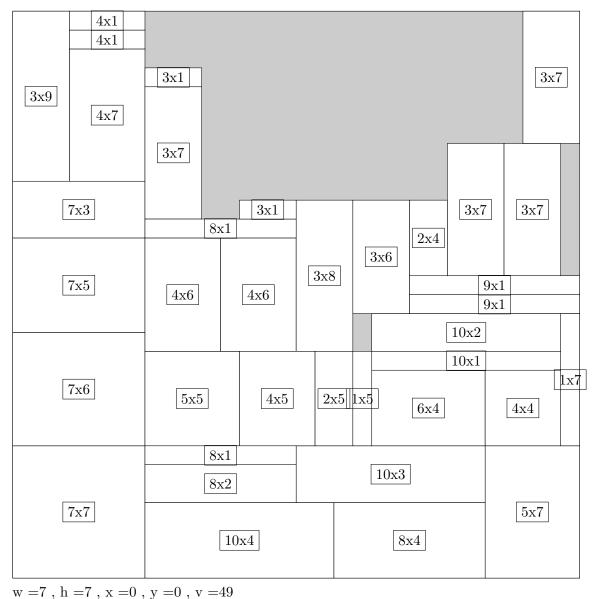
 $\mathbf{w} = \! 1$  ,  $\mathbf{h} = \! 10$  ,  $\mathbf{x} = \! 13$  ,  $\mathbf{y} = \! 20$  ,  $\mathbf{v} = \! 10$ 

 $\mathbf{w}$  =1 , h =10 , x =14 , y =20 , v =10

 $\mathbf{w}$  =7 , h =1 , x =15 , y =28 , v =7

w=1 , h=7 ,  $x=\!22$  ,  $y=\!23$  ,  $v=\!7$ 

 $\mathbf{w}$  =6 , h =1 , x =15 , y =29 , v =6



```
w = 7, h = 6, x = 0, y = 7, v = 42

w = 10, h = 4, x = 7, y = 0, v = 40

w = 7, h = 5, x = 0, y = 13, v = 35

w = 5, h = 7, x = 25, y = 0, v = 35

w = 8, h = 4, x = 17, y = 0, v = 32

w = 10, h = 3, x = 15, y = 4, v = 30

w = 4, h = 7, x = 3, y = 21, v = 28

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

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

w = 6, h = 4, x = 19, y = 7, v = 24

w = 4, h = 6, x = 7, y = 12, v = 24

w = 4, h = 6, x = 11, y = 12, v = 24

w = 4, h = 6, x = 11, y = 12, v = 24

w = 3, h = 8, x = 15, y = 12, v = 24

w = 7, h = 3, x = 0, y = 18, v = 21

w = 3, h = 7, x = 7, y = 19, v = 21
```

```
w = 3, h = 7, x = 23, y = 16, v = 21
```

$$w = 3$$
,  $h = 7$ ,  $x = 26$ ,  $y = 16$ ,  $v = 21$ 

$$w = 3$$
,  $h = 7$ ,  $x = 27$ ,  $y = 23$ ,  $v = 21$ 

$$w = 10$$
,  $h = 2$ ,  $x = 19$ ,  $y = 12$ ,  $v = 20$ 

$$w = 4$$
,  $h = 5$ ,  $x = 12$ ,  $y = 7$ ,  $v = 20$ 

$$w = 3$$
,  $h = 6$ ,  $x = 18$ ,  $y = 14$ ,  $v = 18$ 

$$w$$
 =8 ,  $h$  =2 ,  $x$  =7 ,  $y$  =4 ,  $v$  =16

$$\mathbf{w}$$
 =4 , h =4 , x =25 , y =7 , v =16

$$w=\!10$$
 ,  $h=\!1$  ,  $x=\!19$  ,  $y=\!11$  ,  $v=\!10$ 

$$w = 2$$
,  $h = 5$ ,  $x = 16$ ,  $y = 7$ ,  $v = 10$ 

$$w = 9$$
,  $h = 1$ ,  $x = 21$ ,  $y = 14$ ,  $v = 9$ 

$$w = 9$$
,  $h = 1$ ,  $x = 21$ ,  $y = 15$ ,  $v = 9$ 

$$w=\!8$$
 ,  $h=\!1$  ,  $x=\!7$  ,  $y=\!6$  ,  $v=\!8$ 

$$w$$
 =8 , h =1 , x =7 , y =18 , v =8

$$w = 2$$
,  $h = 4$ ,  $x = 21$ ,  $y = 16$ ,  $v = 8$ 

$$\mathbf{w}$$
 =1 , h =7 , x =29 , y =7 , v =7

$$w = 1$$
,  $h = 5$ ,  $x = 18$ ,  $y = 7$ ,  $v = 5$ 

$$\mathbf{w}$$
 =4 , h =1 , x =3 , y =28 , v =4

$$w = 4$$
,  $h = 1$ ,  $x = 3$ ,  $y = 29$ ,  $v = 4$ 

$$w = 3$$
,  $h = 1$ ,  $x = 12$ ,  $y = 19$ ,  $v = 3$ 

$$w = 3$$
,  $h = 1$ ,  $x = 7$ ,  $y = 26$ ,  $v = 3$