$ClassName: \ Class\_02.2bp-46$ 

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

TypeNum: **63** Num: **100** OutS: **3600** InS: 2737Rate:  $\underline{0.760}$ 

UB: **4** LB0: **4** LB: **4** 

LBWithCut: 4 NodeCut: **0** 

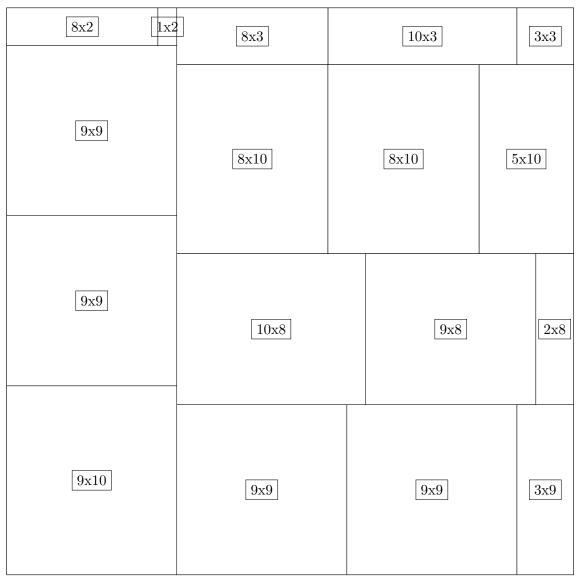
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

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

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

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

TimeOnInitSolution:  $\underline{0.010 \text{ s}}$ TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.150 s



$$w = 9$$
,  $h = 10$ ,  $x = 0$ ,  $y = 0$ ,  $v = 90$ 

$$\mathbf{w}$$
 =9 ,  $\mathbf{h}$  =9 ,  $\mathbf{x}$  =0 ,  $\mathbf{y}$  =10 ,  $\mathbf{v}$  =81

$$w = 9$$
,  $h = 9$ ,  $x = 0$ ,  $y = 19$ ,  $v = 81$ 

$$w = 9$$
,  $h = 9$ ,  $x = 9$ ,  $y = 0$ ,  $v = 81$ 

$$w = 9$$
,  $h = 9$ ,  $x = 18$ ,  $y = 0$ ,  $v = 81$ 

$$w=\!10$$
 ,  $h=\!8$  ,  $x=\!9$  ,  $y=\!9$  ,  $v=\!80$ 

$$w = 8$$
,  $h = 10$ ,  $x = 9$ ,  $y = 17$ ,  $v = 80$ 

$$w = 8$$
,  $h = 10$ ,  $x = 17$ ,  $y = 17$ ,  $v = 80$ 

$$w = 9$$
,  $h = 8$ ,  $x = 19$ ,  $y = 9$ ,  $v = 72$ 

$$w$$
 =5 ,  $h$  =10 ,  $x$  =25 ,  $y$  =17 ,  $v$  =50

$$\mathbf{w}=\!10$$
 ,  $\mathbf{h}=\!3$  ,  $\mathbf{x}=\!17$  ,  $\mathbf{y}=\!27$  ,  $\mathbf{v}=\!30$ 

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

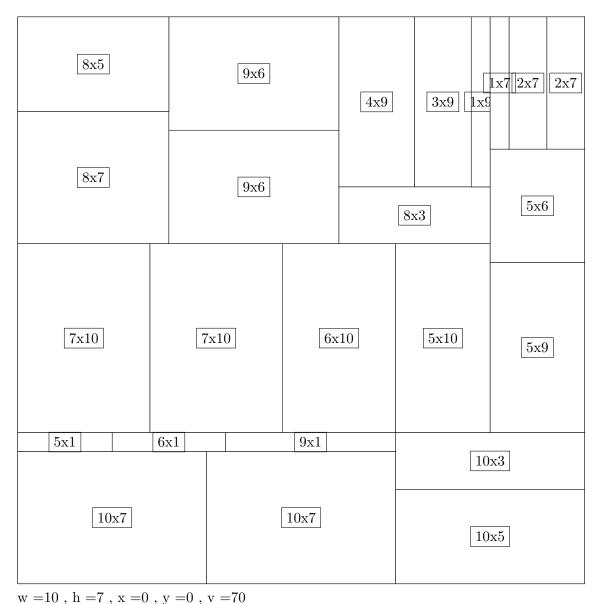
$$w = 8$$
,  $h = 3$ ,  $x = 9$ ,  $y = 27$ ,  $v = 24$ 

$$w = 8$$
,  $h = 2$ ,  $x = 0$ ,  $y = 28$ ,  $v = 16$ 

$$w = 2$$
,  $h = 8$ ,  $x = 28$ ,  $y = 9$ ,  $v = 16$ 

$$w = 3$$
,  $h = 3$ ,  $x = 27$ ,  $y = 27$ ,  $v = 9$ 

 $\mathbf{w}$  =1 , h =2 , x =8 , y =28 , v =2



w =10, h =7, x =0, y =0, v =70 w =10, h =7, x =10, y =0, v =70 w =7, h =10, x =0, y =8, v =70 w =6, h =10, x =14, y =8, v =60 w =8, h =7, x =0, y =18, v =56 w =9, h =6, x =8, y =18, v =54 w =9, h =6, x =8, y =24, v =54 w =10, h =5, x =20, y =0, v =50 w =5, h =10, x =20, y =8, v =45 w =5, h =9, x =25, y =8, v =45 w =8, h =5, x =0, y =25, v =40 w =4, h =9, x =17, y =21, v =36 w =10, h =3, x =20, y =5, v =30 w =5, h =6, x =25, y =17, v =30 w =5, h =6, x =25, y =17, v =30 w =5, h =9, x =21, y =21, v =27  $\le =8$  , h =3 , x =17 , y =18 , v =24

w = 2, h = 7, x = 28, y = 23, v = 14

 $\mathbf{w}$  =2 , h =7 , x =26 , y =23 , v =14

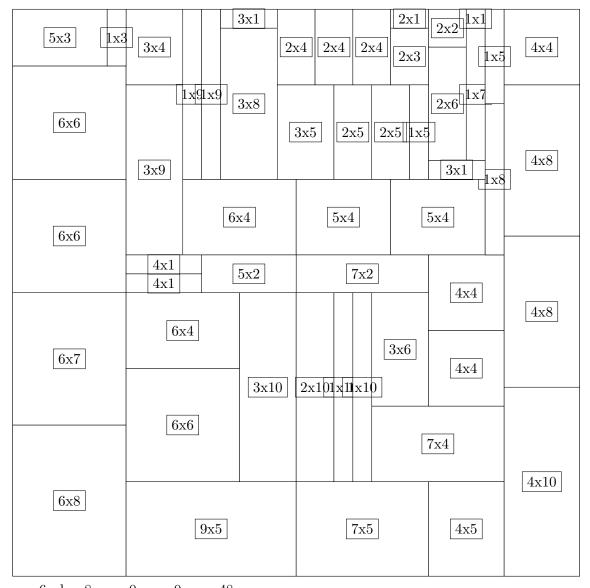
 $\mathbf{w}$  =9 , h =1 , x =11 , y =7 , v =9

 $\mathbf{w}$  =1 , h =9 , x =24 , y =21 , v =9

 $\mathbf{w}$  =1 , h =7 , x =25 , y =23 , v =7

 $\mathbf{w}$  =6 , h =1 , x =5 , y =7 , v =6

 $\mathbf{w}$  =5 , h =1 , x =0 , y =7 , v =5



```
w = 6, h = 8, x = 0, y = 0, v = 48
w = 9, h = 5, x = 6, y = 0, v = 45
```

$$w = 4$$
,  $h = 10$ ,  $x = 26$ ,  $y = 0$ ,  $y = 40$ 

$$w = 4$$
,  $h = 10$ ,  $x = 26$ ,  $y = 0$ ,  $v = 40$ 

$$w = 6$$
,  $h = 6$ ,  $x = 0$ ,  $y = 15$ ,  $v = 36$ 

$$w = 0$$
,  $h = 0$ ,  $x = 0$ ,  $y = 3$ ,  $v = 30$   
 $w = 7$ ,  $h = 5$ ,  $x = 15$ ,  $y = 0$ ,  $v = 35$ 

$$w = 4$$
,  $h = 8$ ,  $x = 26$ ,  $y = 10$ ,  $v = 32$ 

$$w = 4$$
,  $h = 8$ ,  $x = 26$ ,  $y = 10$ ,  $v = 32$   
 $w = 4$ ,  $h = 8$ ,  $x = 26$ ,  $y = 18$ ,  $v = 32$ 

$$w = 3$$
,  $h = 10$ ,  $x = 12$ ,  $y = 5$ ,  $v = 30$ 

$$w = 7$$
,  $h = 4$ ,  $x = 19$ ,  $y = 5$ ,  $v = 28$ 

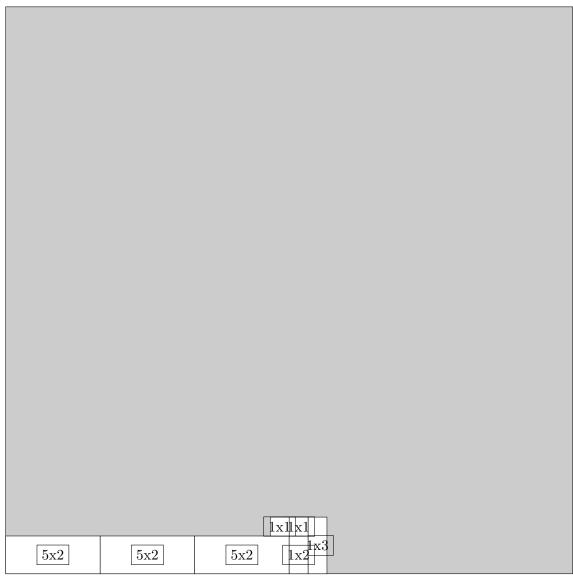
$$w = 7$$
,  $h = 4$ ,  $x = 19$ ,  $y = 3$ ,  $v = 20$   
 $w = 3$ ,  $h = 9$ ,  $x = 6$ ,  $y = 17$ ,  $v = 27$ 

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

$$w = 6$$
,  $h = 4$ ,  $x = 9$ ,  $y = 17$ ,  $v = 24$ 

$$w = 3$$
,  $h = 8$ ,  $x = 11$ ,  $y = 21$ ,  $v = 24$ 

```
w = 5, h = 4, x = 15, y = 17, v = 20
w = 5, h = 4, x = 20, y = 17, v = 20
w = 4, h = 5, x = 22, y = 0, v = 20
w = 2, h = 10, x = 15, y = 5, v = 20
w = 3, h = 6, x = 19, y = 9, v = 18
w = 4, h = 4, x = 26, y = 26, v = 16
w = 4, h = 4, x = 22, y = 9, v = 16
w = 4, h = 4, x = 22, y = 13, v = 16
w = 5, h = 3, x = 0, y = 27, v = 15
w = 3, h = 5, x = 14, y = 21, v = 15
w = 7, h = 2, x = 15, y = 15, v = 14
w = 3, h = 4, x = 6, y = 26, v = 12
w = 2, h = 6, x = 22, y = 22, v = 12
w = 5, h = 2, x = 10, y = 15, v = 10
w = 2, h = 5, x = 17, y = 21, v = 10
w = 2, h = 5, x = 19, y = 21, v = 10
w = 1, h = 10, x = 17, y = 5, v = 10
w = 1, h = 10, x = 18, y = 5, v = 10
w = 1, h = 9, x = 9, y = 21, v = 9
w = 1, h = 9, x = 10, y = 21, v = 9
w = 2, h = 4, x = 14, y = 26, v = 8
w = 2, h = 4, x = 16, y = 26, v = 8
w = 2, h = 4, x = 18, y = 26, v = 8
w = 1, h = 8, x = 25, y = 17, v = 8
w = 1, h = 7, x = 24, y = 22, v = 7
w = 2, h = 3, x = 20, y = 26, v = 6
w = 1, h = 5, x = 25, y = 25, v = 5
w = 1, h = 3, x = 5, y = 27, v = 3
w = 4, h = 1, x = 6, y = 15, v = 4
w = 4, h = 1, x = 6, y = 16, v = 4
w = 2, h = 2, x = 22, y = 28, v = 4
w = 3, h = 1, x = 11, y = 29, v = 3
w = 3, h = 1, x = 22, y = 21, v = 3
w = 1, h = 5, x = 21, y = 21, v = 5
w = 2, h = 1, x = 20, y = 29, v = 2
w = 1, h = 1, x = 24, y = 29, v = 1
```



```
\mathbf{w} =5 , h =2 , x =0 , y =0 , v =10
```

$$\le 5$$
 , h =  
2 , x =  
5 , y =  
0 , v =  
10

$$\mathbf{w}$$
 =5 , h =2 , x =10 , y =0 , v =10

$$\mathbf{w}$$
 =1 , h =3 , x =  
16 , y =0 , v =3

$$\mathbf{w}$$
 =1 , h =2 , x =15 , y =0 , v =2

$$\mathbf{w}$$
 =1 , h =1 , x =15 , y =2 , v =1

$$\mathbf{w} = \! 1$$
 ,  $\mathbf{h} = \! 1$  ,  $\mathbf{x} = \! 14$  ,  $\mathbf{y} = \! 2$  ,  $\mathbf{v} = \! 1$