$ClassName: \ Class\_02.2bp-40$ 

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

TypeNum:  $\underline{64}$ Num:  $\underline{100}$ OutS:  $\underline{3600}$ InS:  $\underline{2733}$ Rate:  $\underline{0.759}$ 

UB: <u>4</u> LB0: <u>4</u> LB: 4

LBWithCut:  $\underline{\mathbf{4}}$  NodeCut:  $\underline{\mathbf{0}}$ 

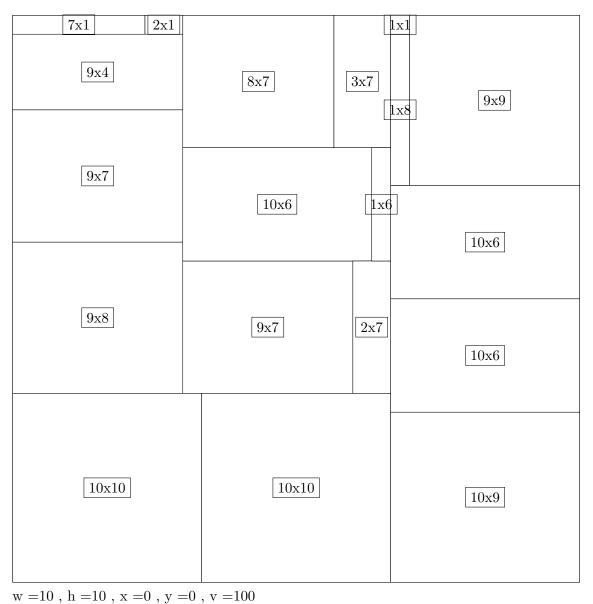
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

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

Branch And<br/>Bound Num:  $\underline{\mathbf{1}}$ 

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

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.078 \ s} \\ {\rm TotalTime:} \ \underline{0.142 \ s} \end{array}$ 



```
w =10 , h =10 , x =10 , y =0 , v =100
w =10 , h =9 , x =20 , y =0 , v =90
w =9 , h =9 , x =21 , y =21 , v =81
w =9 , h =8 , x =0 , y =10 , v =72
w =9 , h =7 , x =0 , y =18 , v =63
w =9 , h =7 , x =9 , y =10 , v =63
w =10 , h =6 , x =20 , y =9 , v =60
w =10 , h =6 , x =20 , y =15 , v =60
w =10 , h =6 , x =9 , y =17 , v =60
w =10 , h =6 , x =9 , y =17 , v =60
w =8 , h =7 , x =9 , y =23 , v =56
w =9 , h =4 , x =0 , y =25 , v =36
w =3 , h =7 , x =17 , y =23 , v =21
w =2 , h =7 , x =18 , y =10 , v =14
w =1 , h =8 , x =20 , y =21 , v =8
w =7 , h =1 , x =0 , y =29 , v =7
```

 $\begin{array}{l} w = 1 \ , \ h = 6 \ , \ x = 19 \ , \ y = 17 \ , \ v = 6 \\ w = 2 \ , \ h = 1 \ , \ x = 7 \ , \ y = 29 \ , \ v = 2 \\ w = 1 \ , \ h = 1 \ , \ x = 20 \ , \ y = 29 \ , \ v = 1 \end{array}$ 

6x2	4x8	3x8	[7x5]			7x1	3x1
6x4					10x3		
			7x6		10x3		
6x5					10x4		
6x9	7x7		9x4			5x7	3x7
	7x7 7x8		5x9	4x9		8x2	
			589			8x4	
6x10			9x6			8x6	

```
\begin{array}{l} w=7\ ,\ h=8\ ,\ x=6\ ,\ y=0\ ,\ v=56\\ w=9\ ,\ h=6\ ,\ x=13\ ,\ y=0\ ,\ v=54\\ w=6\ ,\ h=9\ ,\ x=0\ ,\ y=10\ ,\ v=54\\ w=7\ ,\ h=7\ ,\ x=6\ ,\ y=8\ ,\ v=49\\ w=7\ ,\ h=7\ ,\ x=6\ ,\ y=15\ ,\ v=49\\ w=8\ ,\ h=6\ ,\ x=22\ ,\ y=0\ ,\ v=48\\ w=5\ ,\ h=9\ ,\ x=13\ ,\ y=6\ ,\ v=45\\ w=7\ ,\ h=6\ ,\ x=13\ ,\ y=19\ ,\ v=42\\ w=10\ ,\ h=4\ ,\ x=20\ ,\ y=19\ ,\ v=40\\ w=9\ ,\ h=4\ ,\ x=13\ ,\ y=15\ ,\ v=36\\ w=4\ ,\ h=9\ ,\ x=18\ ,\ y=6\ ,\ v=36\\ w=7\ ,\ h=5\ ,\ x=13\ ,\ y=25\ ,\ v=35\\ w=5\ ,\ h=7\ ,\ x=22\ ,\ y=12\ ,\ v=35\\ w=8\ ,\ h=4\ ,\ x=22\ ,\ y=6\ ,\ v=32\\ w=4\ ,\ h=8\ ,\ x=6\ ,\ y=22\ ,\ v=32\\ \end{array}
```

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

$$w = 10$$
,  $h = 3$ ,  $x = 20$ ,  $y = 23$ ,  $v = 30$ 

$$\le =10$$
 ,  $h=3$  ,  $x=20$  ,  $y=26$  ,  $v=30$ 

$$\mathbf{w}$$
 =6 , h =5 , x =0 , y =19 , v =30

$$w = 6$$
,  $h = 4$ ,  $x = 0$ ,  $y = 24$ ,  $v = 24$ 

$$w=3$$
 ,  $h=8$  ,  $x=\!10$  ,  $y=\!22$  ,  $v=\!24$ 

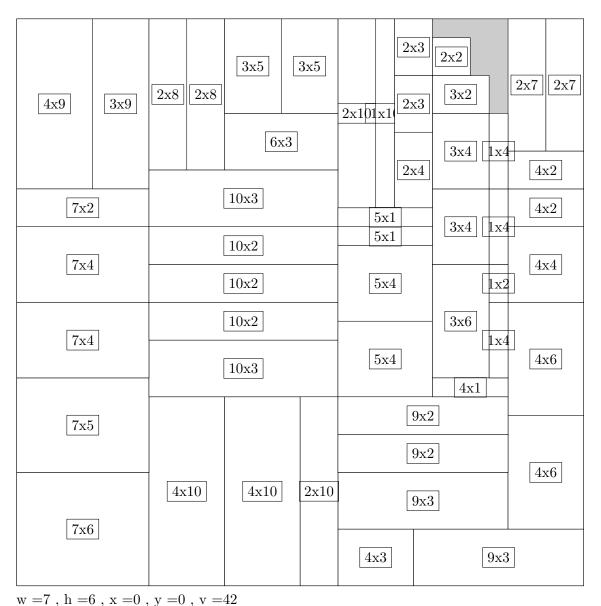
$$\mathbf{w}$$
 =3 , h =7 , x =27 , y =12 , v =21

$$w = 8$$
,  $h = 2$ ,  $x = 22$ ,  $y = 10$ ,  $v = 16$ 

$$\mathbf{w}$$
 =6 , h =2 , x =0 , y =28 , v =12

$$w$$
 =7 , h =1 , x =20 , y =29 , v =7

$$\mathbf{w}$$
 =3 , h =1 , x =27 , y =29 , v =3



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

w =4 , h =10 , x =11 , y =0 , v =40

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

w =7 , h =5 , x =0 , y =6 , v =35

w =10 , h =3 , x =7 , y =10 , v =30

w =4 , h =3 , x =17 , y =0 , v =12

w =7 , h =4 , x =0 , y =11 , v =28

w =7 , h =4 , x =0 , y =15 , v =28

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

w =9 , h =3 , x =17 , y =3 , v =27

w =9 , h =3 , x =4 , y =21 , v =27

w =3 , h =9 , x =4 , y =21 , v =27

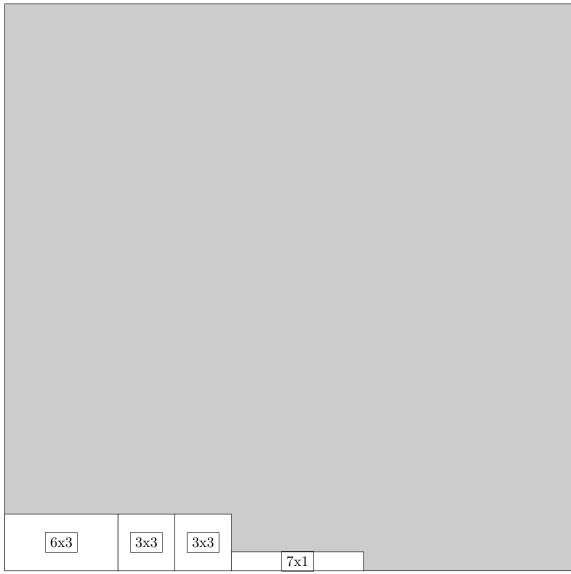
w =4 , h =6 , x =26 , y =3 , v =24

w =4 , h =6 , x =26 , y =9 , v =24

w =10 , h =2 , x =7 , y =15 , v =20
```

```
w = 10, h = 2, x = 7, y = 17, v = 20
w = 5, h = 4, x = 17, y = 10, v = 20
w = 5, h = 4, x = 17, y = 14, v = 20
w = 2, h = 10, x = 15, y = 0, v = 20
w = 2, h = 10, x = 17, y = 20, v = 20
w = 9, h = 2, x = 17, y = 6, v = 18
w = 9, h = 2, x = 17, y = 8, v = 18
w = 6, h = 3, x = 11, y = 22, v = 18
w = 3, h = 6, x = 22, y = 11, v = 18
w = 4, h = 4, x = 26, y = 15, v = 16
w = 2, h = 8, x = 7, y = 22, v = 16
w = 2, h = 8, x = 9, y = 22, v = 16
w = 3, h = 5, x = 11, y = 25, v = 15
w = 3, h = 5, x = 14, y = 25, v = 15
w = 7, h = 2, x = 0, y = 19, v = 14
w = 2, h = 7, x = 28, y = 23, v = 14
w = 2, h = 7, x = 26, y = 23, v = 14
w = 10, h = 3, x = 7, y = 19, v = 30
w = 3, h = 4, x = 22, y = 17, v = 12
w = 3, h = 4, x = 22, y = 21, v = 12
w = 1, h = 10, x = 19, y = 20, v = 10
w = 4, h = 2, x = 26, y = 19, v = 8
w = 4, h = 2, x = 26, y = 21, v = 8
w = 2, h = 4, x = 20, y = 20, v = 8
w = 3, h = 2, x = 22, y = 25, v = 6
w = 2, h = 3, x = 20, v = 24, v = 6
w = 2, h = 3, x = 20, y = 27, v = 6
w = 5, h = 1, x = 17, y = 18, v = 5
w = 5, h = 1, x = 17, y = 19, v = 5
w = 4, h = 1, x = 22, y = 10, v = 4
w = 2, h = 2, x = 22, y = 27, v = 4
w = 1, h = 4, x = 25, y = 11, v = 4
w = 1, h = 4, x = 25, y = 17, v = 4
w = 1, h = 4, x = 25, y = 21, v = 4
```

w = 1, h = 2, x = 25, y = 15, v = 2



 $\mathbf{w}$  =6 , h =3 , x =0 , y =0 , v =18

 $\mathbf{w}$  =3 , h =3 , x =6 , y =0 , v =9

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

 $\mathbf{w}$  =7 , h =1 , x =12 , y =0 , v =7