$ClassName: \ Class\_02.2bp-30$ 

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

TypeNum: <u>58</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2274</u> Rate: <u>0.842</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** 

TimeOnInitSolution:  $\underline{600.000 \text{ s}}$ 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 600.391 s

						6x1
[5x5]	3x4		8x4	1x3	7x3	[3x3]
					8x9	3x3
6x6	4x8		9x8		OX9	3x6
6x9	5x2					
	6x6		7x8		8x8	3x8
8x2						
10x2			8x9		9x9	
10x5						

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

$$\le =3$$
 , h =6 , x =27 , y =17 , v =18

$$w$$
 =3 , h =3 , x =27 , y =23 , v =9

$$w = 8$$
,  $h = 9$ ,  $x = 10$ ,  $y = 0$ ,  $v = 61$   
 $w = 8$ ,  $h = 9$ ,  $x = 10$ ,  $y = 0$ ,  $v = 72$ 

$$w = 0$$
,  $h = 9$ ,  $x = 10$ ,  $y = 0$ ,  $v = 12$   
 $w = 10$ ,  $h = 5$ ,  $x = 0$ ,  $y = 0$ ,  $v = 50$ 

$$w = 10$$
,  $h = 0$ ,  $x = 0$ ,  $y = 0$ ,  $v = 20$ 

$$w = 10$$
,  $h = 2$ ,  $x = 0$ ,  $y = 0$ ,  $v = 20$   
 $w = 8$ ,  $h = 2$ ,  $x = 2$ ,  $y = 7$ ,  $v = 16$ 

$$\le =8$$
 , h =8 , x =19 , y =9 , v =64

$$w = 7$$
,  $h = 8$ ,  $x = 12$ ,  $y = 9$ ,  $v = 56$ 

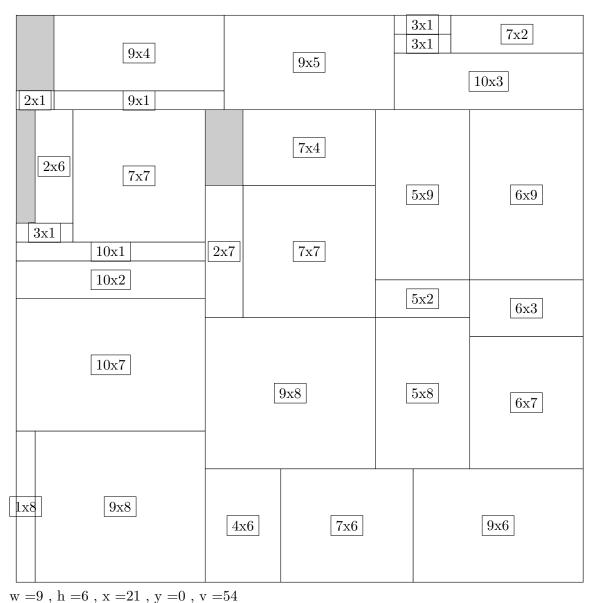
$$\mathbf{w}$$
 =6 , h =6 , x =6 , y =9 , v =36

$$\mathbf{w}$$
 =5 ,  $\mathbf{h}$  =2 ,  $\mathbf{x}$  =7 ,  $\mathbf{y}$  =15 ,  $\mathbf{v}$  =10

$$w = 8$$
,  $h = 9$ ,  $x = 19$ ,  $y = 17$ ,  $v = 72$ 

$$w = 7$$
,  $h = 3$ ,  $x = 20$ ,  $y = 26$ ,  $v = 21$ 

 $\begin{array}{l} w=1\ ,\ h=3\ ,\ x=19\ ,\ y=26\ ,\ v=3\\ w=9\ ,\ h=8\ ,\ x=10\ ,\ y=17\ ,\ v=72\\ w=8\ ,\ h=4\ ,\ x=11\ ,\ y=25\ ,\ v=32\\ w=4\ ,\ h=8\ ,\ x=6\ ,\ y=17\ ,\ v=32\\ w=3\ ,\ h=4\ ,\ x=7\ ,\ y=25\ ,\ v=12\\ w=6\ ,\ h=9\ ,\ x=0\ ,\ y=9\ ,\ v=54\\ w=6\ ,\ h=6\ ,\ x=0\ ,\ y=18\ ,\ v=36\\ w=5\ ,\ h=5\ ,\ x=1\ ,\ y=24\ ,\ v=25\\ w=6\ ,\ h=1\ ,\ x=24\ ,\ y=29\ ,\ v=6\\ \end{array}$ 



```
w = 7, h = 6, x = 14, y = 0, v = 42

w = 4, h = 6, x = 10, y = 0, v = 24

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

w = 6, h = 3, x = 24, y = 13, v = 18

w = 5, h = 8, x = 19, y = 6, v = 40

w = 5, h = 2, x = 19, y = 14, v = 10

w = 6, h = 9, x = 24, y = 16, v = 54

w = 5, h = 9, x = 19, y = 16, v = 54

w = 5, h = 9, x = 19, y = 16, v = 45

w = 9, h = 8, x = 10, y = 6, v = 72

w = 7, h = 7, x = 12, y = 14, v = 49

w = 2, h = 7, x = 10, y = 14, v = 14

w = 7, h = 4, x = 12, y = 21, v = 28

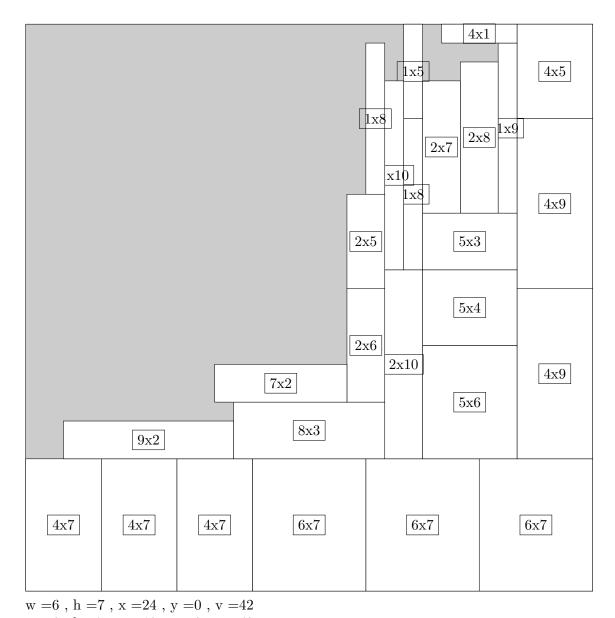
w = 9, h = 8, x = 1, y = 0, v = 72

w = 1, h = 8, x = 0, y = 0, v = 8

w = 10, h = 7, x = 0, y = 8, v = 70
```

```
\begin{array}{l} w=10\;,\;h=2\;,\;x=0\;,\;y=15\;,\;v=20\\ w=10\;,\;h=1\;,\;x=0\;,\;y=17\;,\;v=10\\ w=7\;,\;h=7\;,\;x=3\;,\;y=18\;,\;v=49\\ w=3\;,\;h=1\;,\;x=0\;,\;y=18\;,\;v=3\\ w=2\;,\;h=6\;,\;x=1\;,\;y=19\;,\;v=12\\ w=10\;,\;h=3\;,\;x=20\;,\;y=25\;,\;v=30\\ w=7\;,\;h=2\;,\;x=23\;,\;y=28\;,\;v=14\\ w=3\;,\;h=1\;,\;x=20\;,\;y=28\;,\;v=3\\ w=3\;,\;h=1\;,\;x=20\;,\;y=29\;,\;v=3\\ w=9\;,\;h=5\;,\;x=11\;,\;y=25\;,\;v=45\\ w=9\;,\;h=1\;,\;x=2\;,\;y=25\;,\;v=9\\ w=2\;,\;h=1\;,\;x=0\;,\;y=25\;,\;v=2\\ \end{array}
```

w=9 , h=4 , x=2 , y=26 , v=36



```
\begin{array}{l} w=6\ ,\ h=7\ ,\ x=18\ ,\ y=0\ ,\ v=42\\ w=6\ ,\ h=7\ ,\ x=12\ ,\ y=0\ ,\ v=42\\ w=4\ ,\ h=7\ ,\ x=8\ ,\ y=0\ ,\ v=28\\ w=4\ ,\ h=7\ ,\ x=4\ ,\ y=0\ ,\ v=28\\ w=4\ ,\ h=7\ ,\ x=0\ ,\ y=0\ ,\ v=28\\ w=4\ ,\ h=9\ ,\ x=26\ ,\ y=7\ ,\ v=36\\ w=4\ ,\ h=9\ ,\ x=26\ ,\ y=16\ ,\ v=36\\ w=4\ ,\ h=5\ ,\ x=26\ ,\ y=16\ ,\ v=36\\ w=4\ ,\ h=5\ ,\ x=26\ ,\ y=15\ ,\ v=20\\ w=5\ ,\ h=6\ ,\ x=21\ ,\ y=7\ ,\ v=30\\ w=5\ ,\ h=4\ ,\ x=21\ ,\ y=17\ ,\ v=15\\ w=1\ ,\ h=9\ ,\ x=25\ ,\ y=20\ ,\ v=9\\ w=2\ ,\ h=8\ ,\ x=23\ ,\ y=20\ ,\ v=16\\ w=2\ ,\ h=7\ ,\ x=21\ ,\ y=20\ ,\ v=14\\ \end{array}
```

w = 4, h = 1, x = 22, y = 29, v = 4

$$w$$
 =2 , h =10 , x =19 , y =7 , v =20

$$w = 1$$
,  $h = 8$ ,  $x = 20$ ,  $y = 17$ ,  $v = 8$ 

$$w$$
 =1 , h =5 , x =20 , y =25 , v =5

$$\mathbf{w}$$
 =1 , h =10 , x =19 , y =17 , v =10

$$w$$
 =8 , h =3 , x =11 , y =7 , v =24

$$w = 9$$
,  $h = 2$ ,  $x = 2$ ,  $y = 7$ ,  $v = 18$ 

$$\mathbf{w}$$
 =2 , h =6 , x =17 , y =10 , v =12

$$w$$
 =2 , h =5 , x =17 , y =16 , v =10

$$w=1$$
 ,  $h=\!8$  ,  $x=\!18$  ,  $y=\!21$  ,  $v=\!8$ 

$$w = 7$$
,  $h = 2$ ,  $x = 10$ ,  $y = 10$ ,  $v = 14$