$ClassName: \ Class\_02.2bp-44$ 

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

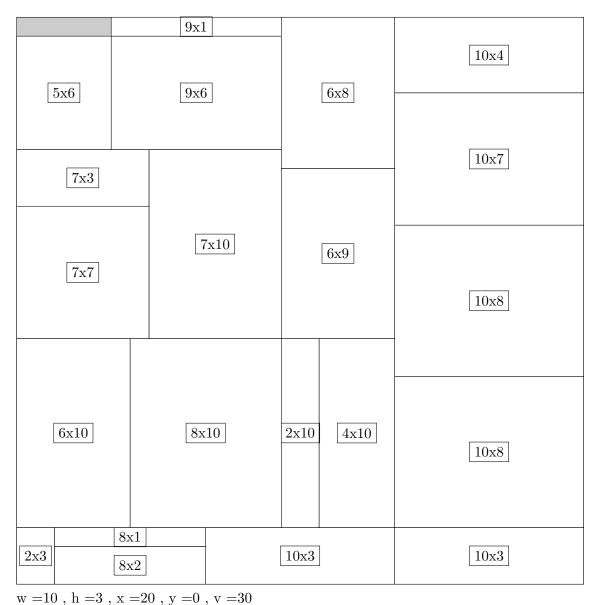
TypeNum:  $\underline{64}$ Num:  $\underline{100}$ OutS:  $\underline{3600}$ InS:  $\underline{3015}$ Rate:  $\underline{0.838}$ 

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

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

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

TimeOnPrimal:  $\underline{0.000 \text{ s}}$ TimeOnPricing:  $\underline{0.000 \text{ s}}$ TimeOnRmp:  $\underline{0.047 \text{ s}}$ TotalTime:  $\underline{0.203 \text{ s}}$ 



```
\begin{array}{l} w=10\;,\;h=3\;,\;x=10\;,\;y=0\;,\;v=30\\ w=8\;,\;h=2\;,\;x=2\;,\;y=0\;,\;v=16\\ w=8\;,\;h=1\;,\;x=2\;,\;y=2\;,\;v=8\\ w=2\;,\;h=3\;,\;x=0\;,\;y=0\;,\;v=6\\ w=10\;,\;h=8\;,\;x=20\;,\;y=3\;,\;v=80\\ w=10\;,\;h=8\;,\;x=20\;,\;y=11\;,\;v=80\\ w=10\;,\;h=7\;,\;x=20\;,\;y=19\;,\;v=70\\ w=10\;,\;h=4\;,\;x=20\;,\;y=26\;,\;v=40\\ w=4\;,\;h=10\;,\;x=16\;,\;y=3\;,\;v=20\\ w=2\;,\;h=10\;,\;x=14\;,\;y=3\;,\;v=20\\ w=6\;,\;h=9\;,\;x=14\;,\;y=13\;,\;v=54\\ w=6\;,\;h=8\;,\;x=14\;,\;y=22\;,\;v=48\\ w=8\;,\;h=10\;,\;x=6\;,\;y=3\;,\;v=80\\ w=6\;,\;h=10\;,\;x=6\;,\;y=3\;,\;v=60\\ w=7\;,\;h=10\;,\;x=7\;,\;y=13\;,\;v=70\\ \end{array}
```

 $\begin{array}{l} w=7\ ,\ h=7\ ,\ x=0\ ,\ y=13\ ,\ v=49\\ w=7\ ,\ h=3\ ,\ x=0\ ,\ y=20\ ,\ v=21\\ w=9\ ,\ h=6\ ,\ x=5\ ,\ y=23\ ,\ v=54\\ w=9\ ,\ h=1\ ,\ x=5\ ,\ y=29\ ,\ v=9\\ w=5\ ,\ h=6\ ,\ x=0\ ,\ y=23\ ,\ v=30 \end{array}$ 

2x1   4x3	9x4	9x4	[8x5]
1x2 3x2 4x6	9x8	9x8	8x7
7x4 7x6	1x9 4x9	10x1 10x4	8x9
7x8	1x91x9 2x9 4x	x9 7x9	8x9

$$w$$
 =8 , h =9 , x =22 , y =0 , v =72

$$w$$
 =8 , h =9 , x =22 , y =9 , v =72

$$w$$
 =8 , h =7 , x =22 , y =18 , v =  
56

$$w = 8$$
,  $h = 5$ ,  $x = 22$ ,  $y = 25$ ,  $v = 40$ 

$$w = 7$$
,  $h = 9$ ,  $x = 15$ ,  $y = 0$ ,  $v = 63$ 

$$\mathbf{w}$$
 =4 , h =9 , x =11 , y =0 , v =36

$$w = 2$$
,  $h = 9$ ,  $x = 9$ ,  $y = 0$ ,  $v = 18$ 

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

$$w=1$$
 ,  $h=9$  ,  $x=7$  ,  $y=0$  ,  $v=9$ 

$$w=\!10$$
 ,  $h=\!4$  ,  $x=\!12$  ,  $y=\!9$  ,  $v=\!40$ 

$$w=\!10$$
 ,  $h=\!4$  ,  $x=\!12$  ,  $y=\!13$  ,  $v=\!40$ 

$$\mathbf{w}$$
 =10 , h =1 , x =12 , y =17 , v =10

$$w = 4$$
,  $h = 9$ ,  $x = 8$ ,  $y = 9$ ,  $v = 36$ 

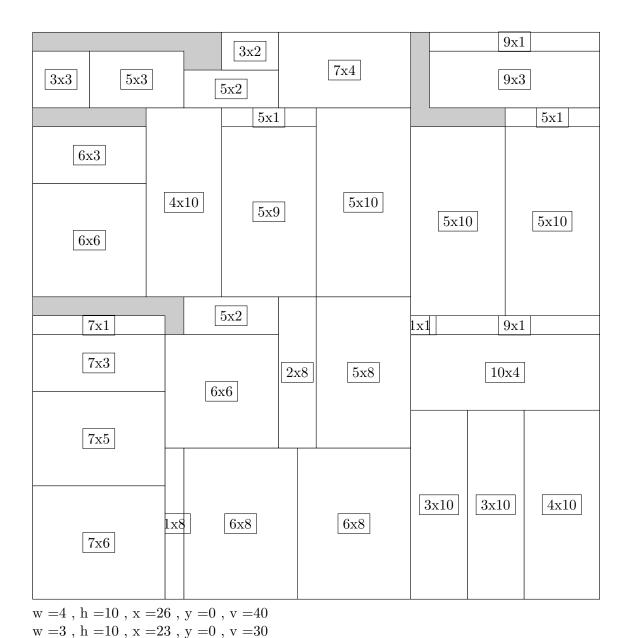
$$w = 1$$
,  $h = 9$ ,  $x = 7$ ,  $y = 9$ ,  $v = 9$ 

$$w = 7$$
,  $h = 8$ ,  $x = 0$ ,  $y = 0$ ,  $v = 56$ 

$$w = 7$$
,  $h = 6$ ,  $x = 0$ ,  $y = 8$ ,  $v = 42$ 

 $\begin{array}{l} w=7\ ,\, h=4\ ,\, x=0\ ,\, y=14\ ,\, v=28\\ w=9\ ,\, h=8\ ,\, x=13\ ,\, y=18\ ,\, v=72\\ w=9\ ,\, h=8\ ,\, x=4\ ,\, y=18\ ,\, v=72\\ w=4\ ,\, h=6\ ,\, x=0\ ,\, y=18\ ,\, v=24\\ w=3\ ,\, h=2\ ,\, x=1\ ,\, y=24\ ,\, v=6\\ w=1\ ,\, h=2\ ,\, x=0\ ,\, y=24\ ,\, v=2\\ w=9\ ,\, h=4\ ,\, x=13\ ,\, y=26\ ,\, v=36\\ w=9\ ,\, h=4\ ,\, x=4\ ,\, y=26\ ,\, v=36\\ w=4\ ,\, h=3\ ,\, x=0\ ,\, y=26\ ,\, v=12\\ \end{array}$ 

 $\mathbf{w}$  =2 , h =1 , x =2 , y =29 , v =2



w = 2, h = 8, x = 13, y = 8, v = 16

```
w = 6, h = 6, x = 7, y = 8, v = 36
```

$$w = 5$$
,  $h = 2$ ,  $x = 8$ ,  $y = 14$ ,  $v = 10$ 

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

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

$$\mathbf{w}$$
 =7 , h =3 , x =0 , y =11 , v =21

$$w = 7$$
,  $h = 1$ ,  $x = 0$ ,  $y = 14$ ,  $v = 7$ 

$$w = 5$$
,  $h = 10$ ,  $x = 15$ ,  $y = 16$ ,  $v = 50$ 

$$w=\!5$$
 ,  $h=\!9$  ,  $x=\!10$  ,  $y=\!16$  ,  $v=\!45$ 

$$w = 5$$
,  $h = 1$ ,  $x = 10$ ,  $y = 25$ ,  $v = 5$ 

$$w = 4$$
,  $h = 10$ ,  $x = 6$ ,  $y = 16$ ,  $v = 40$ 

$$w = 6$$
,  $h = 6$ ,  $x = 0$ ,  $y = 16$ ,  $v = 36$ 

$$w = 6$$
,  $h = 3$ ,  $x = 0$ ,  $y = 22$ ,  $v = 18$ 

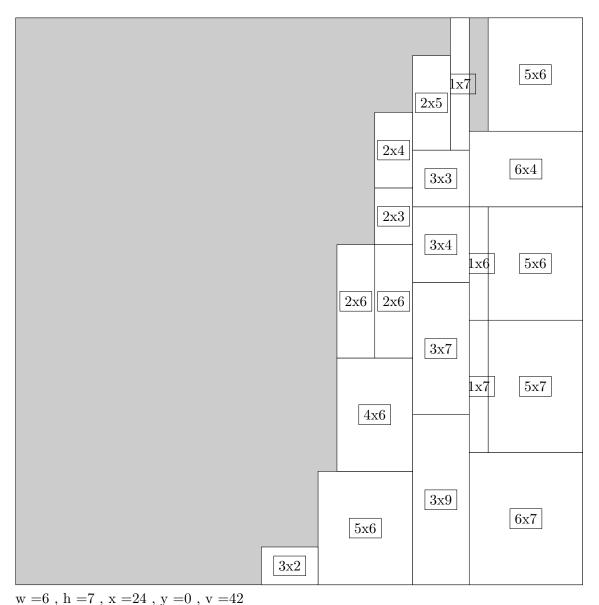
$$w = 7$$
,  $h = 4$ ,  $x = 13$ ,  $y = 26$ ,  $v = 28$ 

$$w = 5$$
,  $h = 2$ ,  $x = 8$ ,  $y = 26$ ,  $v = 10$ 

$$\mathbf{w}$$
 =3 , h =2 , x =10 , y =28 , v =6

$$w = 5$$
,  $h = 3$ ,  $x = 3$ ,  $y = 26$ ,  $v = 15$ 

$$w = 3$$
,  $h = 3$ ,  $x = 0$ ,  $y = 26$ ,  $v = 9$ 



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

w =1 , h =7 , x =24 , y =7 , v =7

w =5 , h =6 , x =25 , y =14 , v =30

w =1 , h =6 , x =24 , y =14 , v =6

w =6 , h =4 , x =24 , y =20 , v =24

w =5 , h =6 , x =25 , y =24 , v =30

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

w =3 , h =7 , x =21 , y =9 , v =21

w =3 , h =4 , x =21 , y =16 , v =12

w =3 , h =3 , x =21 , y =20 , v =9

w =1 , h =7 , x =23 , y =23 , v =7

w =2 , h =5 , x =21 , y =23 , v =10

w =5 , h =6 , x =16 , y =0 , v =30

w =3 , h =2 , x =13 , y =0 , v =6

w =4 , h =6 , x =17 , y =6 , v =24
```

 $\begin{array}{l} w=2\ ,\ h=6\ ,\ x=19\ ,\ y=12\ ,\ v=12\\ w=2\ ,\ h=6\ ,\ x=17\ ,\ y=12\ ,\ v=12\\ w=2\ ,\ h=3\ ,\ x=19\ ,\ y=18\ ,\ v=6\\ w=2\ ,\ h=4\ ,\ x=19\ ,\ y=21\ ,\ v=8 \end{array}$