$ClassName: \ Class_02.2bp-43$

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

TypeNum: <u>65</u> Num: <u>100</u> OutS: <u>3600</u> InS: <u>2881</u> Rate: <u>0.800</u>

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

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.062 sTotalTime: 0.125 s

8x3 1x3	7x3 [1x1	3x2 2x2	9x4
9x8	8x8	4x9	9x7
			6x2
9x9	8x9	[7x9]	6x8
9x10	8x10	7x10	6x9

$$\begin{array}{l} w = 9 \ , \ h = 10 \ , \ x = 0 \ , \ y = 0 \ , \ v = 90 \\ w = 9 \ , \ h = 9 \ , \ x = 0 \ , \ y = 10 \ , \ v = 81 \end{array}$$

$$\mathbf{w}$$
 =8 , h =10 , x =9 , y =0 , v =80

$$w = 9$$
, $h = 8$, $x = 0$, $y = 19$, $v = 72$

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

$$w = 7$$
, $h = 10$, $x = 17$, $y = 0$, $v = 70$

$$w$$
 =8 , h =8 , x =9 , y =19 , v =64

$$w = 9$$
, $h = 7$, $x = 21$, $y = 19$, $v = 63$

$$w = 7, h = 9, x = 17, y = 10, v = 63$$

$$w = 6$$
, $h = 8$, $x = 24$, $y = 9$, $v = 48$

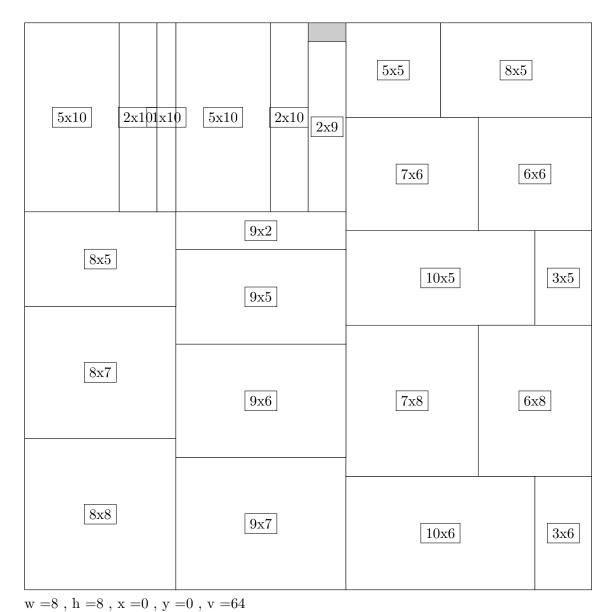
$$w = 9$$
, $h = 4$, $x = 21$, $y = 26$, $v = 36$

$$\mathbf{w}$$
 =4 , h =9 , x =17 , y =19 , v =36

$$w = 8$$
, $h = 3$, $x = 0$, $y = 27$, $v = 24$

$$w = 7$$
, $h = 3$, $x = 9$, $y = 27$, $v = 21$
 $w = 6$, $h = 2$, $x = 24$, $y = 17$, $v = 12$

 $\begin{array}{l} w = 3 \ , \ h = 2 \ , \ x = 16 \ , \ y = 28 \ , \ v = 6 \\ w = 2 \ , \ h = 2 \ , \ x = 19 \ , \ y = 28 \ , \ v = 4 \\ w = 1 \ , \ h = 3 \ , \ x = 8 \ , \ y = 27 \ , \ v = 3 \\ w = 1 \ , \ h = 1 \ , \ x = 16 \ , \ y = 27 \ , \ v = 1 \end{array}$



$$\begin{array}{l} w=9\;,\;h=7\;,\;x=8\;,\;y=0\;,\;v=63\\ w=10\;,\;h=6\;,\;x=17\;,\;y=0\;,\;v=60\\ w=8\;,\;h=7\;,\;x=0\;,\;y=8\;,\;v=56\\ w=7\;,\;h=8\;,\;x=17\;,\;y=6\;,\;v=56\\ w=9\;,\;h=6\;,\;x=8\;,\;y=7\;,\;v=54\\ w=10\;,\;h=5\;,\;x=17\;,\;y=14\;,\;v=50\\ w=5\;,\;h=10\;,\;x=0\;,\;y=20\;,\;v=50\\ w=5\;,\;h=10\;,\;x=8\;,\;y=20\;,\;v=50\\ w=6\;,\;h=8\;,\;x=24\;,\;y=6\;,\;v=48\\ w=9\;,\;h=5\;,\;x=8\;,\;y=13\;,\;v=45\\ w=7\;,\;h=6\;,\;x=17\;,\;y=19\;,\;v=42\\ w=8\;,\;h=5\;,\;x=0\;,\;y=15\;,\;v=40\\ w=8\;,\;h=5\;,\;x=22\;,\;y=25\;,\;v=40\\ w=6\;,\;h=6\;,\;x=24\;,\;y=19\;,\;v=36\\ w=5\;,\;h=5\;,\;x=17\;,\;y=25\;,\;v=25\\ \end{array}$$

 \mathbf{w} =2 , h =10 , x =5 , y =20 , v =20

 \mathbf{w} =2 , h =10 , x =13 , y =20 , v =20

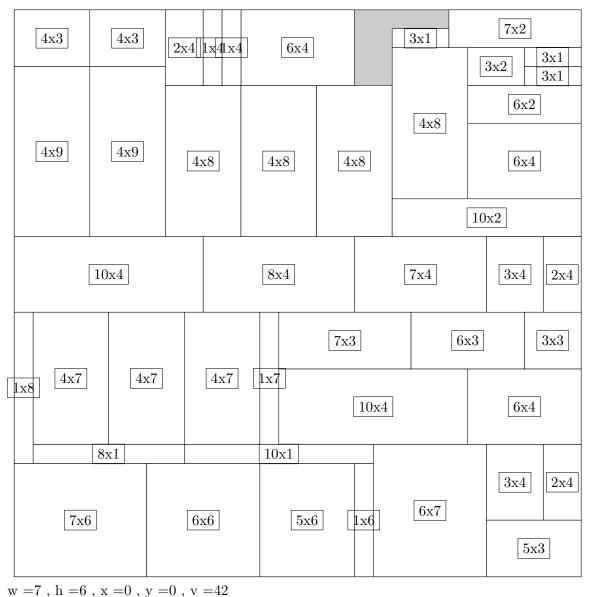
 $\le =3$, h =6 , x =27 , y =0 , v =18

 \mathbf{w} =2 , h =9 , x =15 , y =20 , v =18

 $\le =3$, h = 5 , x = 27 , y = 14 , v = 15

w=1 , $h=\!10$, $x=\!7$, $y=\!20$, $v=\!10$

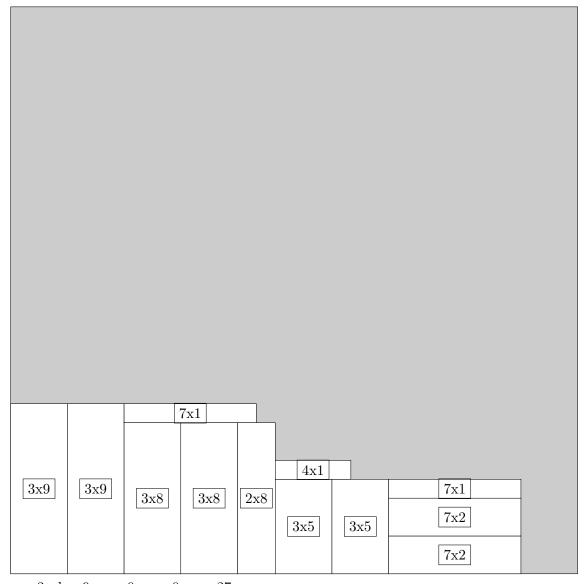
w=9 , h=2 , x=8 , $y=\!18$, $v=\!18$



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

 $\begin{array}{l} w=2\ ,\, h=4\ ,\, x=28\ ,\, y=14\ ,\, v=8\\ w=2\ ,\, h=4\ ,\, x=8\ ,\, y=26\ ,\, v=8\\ w=1\ ,\, h=8\ ,\, x=0\ ,\, y=6\ ,\, v=8\\ w=1\ ,\, h=7\ ,\, x=13\ ,\, y=7\ ,\, v=7\\ w=3\ ,\, h=2\ ,\, x=24\ ,\, y=26\ ,\, v=6\\ w=1\ ,\, h=4\ ,\, x=10\ ,\, y=26\ ,\, v=4\\ w=1\ ,\, h=4\ ,\, x=11\ ,\, y=26\ ,\, v=4\\ w=3\ ,\, h=1\ ,\, x=27\ ,\, y=26\ ,\, v=3\\ w=3\ ,\, h=1\ ,\, x=27\ ,\, y=27\ ,\, v=3\\ w=3\ ,\, h=1\ ,\, x=20\ ,\, y=28\ ,\, v=3\\ \end{array}$

w = 4, h = 7, x = 9, y = 7, v = 28



$$\begin{array}{l} w=3\ ,\, h=9\ ,\, x=0\ ,\, y=0\ ,\, v=27\\ w=3\ ,\, h=9\ ,\, x=3\ ,\, y=0\ ,\, v=27\\ w=3\ ,\, h=8\ ,\, x=6\ ,\, y=0\ ,\, v=24\\ w=3\ ,\, h=8\ ,\, x=9\ ,\, y=0\ ,\, v=24\\ w=2\ ,\, h=8\ ,\, x=12\ ,\, y=0\ ,\, v=16\\ w=3\ ,\, h=5\ ,\, x=14\ ,\, y=0\ ,\, v=15\\ w=3\ ,\, h=5\ ,\, x=17\ ,\, y=0\ ,\, v=15\\ w=7\ ,\, h=2\ ,\, x=20\ ,\, y=0\ ,\, v=14\\ w=7\ ,\, h=2\ ,\, x=20\ ,\, y=2\ ,\, v=14\\ w=7\ ,\, h=1\ ,\, x=6\ ,\, y=8\ ,\, v=7\\ w=7\ ,\, h=1\ ,\, x=20\ ,\, y=4\ ,\, v=7\\ w=4\ ,\, h=1\ ,\, x=14\ ,\, y=5\ ,\, v=4\\ \end{array}$$