$ClassName: \ Class_02.2bp-40$

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

TypeNum: <u>64</u> Num: <u>100</u> OutS: <u>3600</u> InS: <u>2733</u> Rate: <u>0.759</u>

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

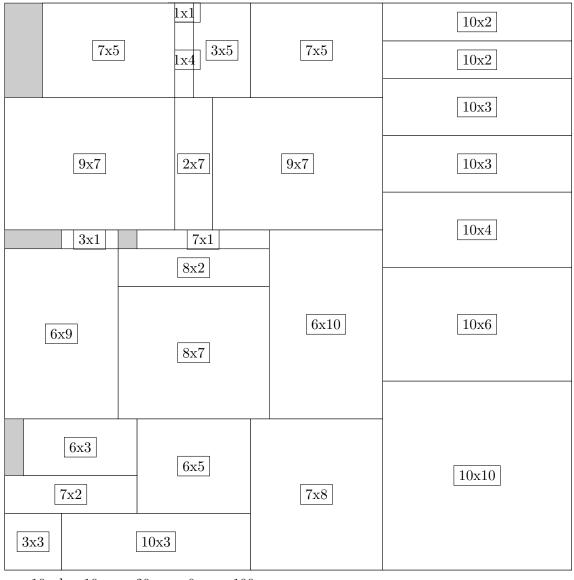
isOpt: $\underline{\mathbf{true}}$

TimeOnPrimal: $\underline{0.000 \text{ s}}$ TimeOnPricing: $\underline{0.000 \text{ s}}$ TimeOnRmp: $\underline{0.079 \text{ s}}$ TotalTime: $\underline{0.219 \text{ s}}$

	10x2		7x1	
2x3 2x1	10x3	1x4 3x5	9x6	[5x7]
2x8	10x9	4x9	[9x8]	1x8 4x8
2x10	10x10	4x10	9x9	5x9
3x6	[7x6]	10x6		10x6

```
w = 10, h = 6, x = 20, y = 0, v = 60
w = 10, h = 6, x = 10, y = 0, v = 60
w = 7, h = 6, x = 3, y = 0, v = 42
w = 3, h = 6, x = 0, y = 0, v = 18
w = 5, h = 9, x = 25, y = 6, v = 45
w = 4, h = 8, x = 26, y = 15, v = 32
w = 1, h = 8, x = 25, y = 15, v = 8
w = 5, h = 7, x = 25, y = 23, v = 35
w = 9, h = 9, x = 16, y = 6, v = 81
w = 9, h = 8, x = 16, y = 15, v = 72
w = 9, h = 6, x = 16, y = 23, v = 54
w = 7, h = 1, x = 18, y = 29, v = 7
w = 4, h = 10, x = 12, y = 6, v = 40
w = 4, h = 9, x = 12, y = 16, v = 36
w = 3, h = 5, x = 13, y = 25, v = 15
w=\!1 , h=\!\!4 , x=\!\!12 , y=\!\!25 , v=\!\!4
```

 $\begin{array}{l} w = & 10 \;,\; h = & 10 \;,\; x = & 2 \;,\; y = & 6 \;,\; v = & 100 \\ w = & 2 \;,\; h = & 10 \;,\; x = & 0 \;,\; y = & 6 \;,\; v = & 20 \\ w = & 10 \;,\; h = & 9 \;,\; x = & 2 \;,\; y = & 16 \;,\; v = & 90 \\ w = & 2 \;,\; h = & 8 \;,\; x = & 0 \;,\; y = & 16 \;,\; v = & 16 \\ w = & 2 \;,\; h = & 1 \;,\; x = & 0 \;,\; y = & 24 \;,\; v = & 2 \\ w = & 10 \;,\; h = & 3 \;,\; x = & 2 \;,\; y = & 25 \;,\; v = & 30 \\ w = & 2 \;,\; h = & 3 \;,\; x = & 0 \;,\; y = & 25 \;,\; v = & 6 \\ w = & 10 \;,\; h = & 2 \;,\; x = & 2 \;,\; y = & 28 \;,\; v = & 20 \end{array}$



$$w = 10$$
, $h = 10$, $x = 20$, $y = 0$, $v = 100$

$$\le =10$$
 , h =6 , x =20 , y =10 , v =60

$$w = 10$$
, $h = 4$, $x = 20$, $y = 16$, $v = 40$

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

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

$$w = 10$$
, $h = 2$, $x = 20$, $y = 26$, $v = 20$

$$\le =10$$
 , $h=2$, $x=20$, $y=28$, $v=20$

$$w = 7$$
, $h = 8$, $x = 13$, $y = 0$, $v = 56$

$$w$$
 =10 , h =3 , x =3 , y =0 , v =30

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

$$w = 6$$
, $h = 5$, $x = 7$, $y = 3$, $v = 30$

$$w$$
 =7 , h =2 , x =0 , y =3 , v =14

$$\begin{array}{l} w = 6 \ , \ h = 3 \ , \ x = 1 \ , \ y = 5 \ , \ v = 18 \\ w = 6 \ , \ h = 10 \ , \ x = 14 \ , \ y = 8 \ , \ v = 60 \end{array}$$

$$w = 8$$
, $h = 7$, $x = 6$, $y = 8$, $v = 56$

$$\le =8$$
 , h =2 , x =6 , y =15 , v =16

```
\mathbf{w} =7 , \mathbf{h} =1 , \mathbf{x} =7 , \mathbf{y} =17 , \mathbf{v} =7
```

$$w = 6$$
, $h = 9$, $x = 0$, $y = 8$, $v = 54$

$$w = 3$$
, $h = 1$, $x = 3$, $y = 17$, $v = 3$

$$\mathbf{w}$$
 =9 , h =7 , x =11 , y =18 , v =63

$$w=2$$
 , $h=7$, $x=9$, $y=\!18$, $v=\!14$

$$w$$
 =7 , h =5 , x =13 , y =25 , v =35

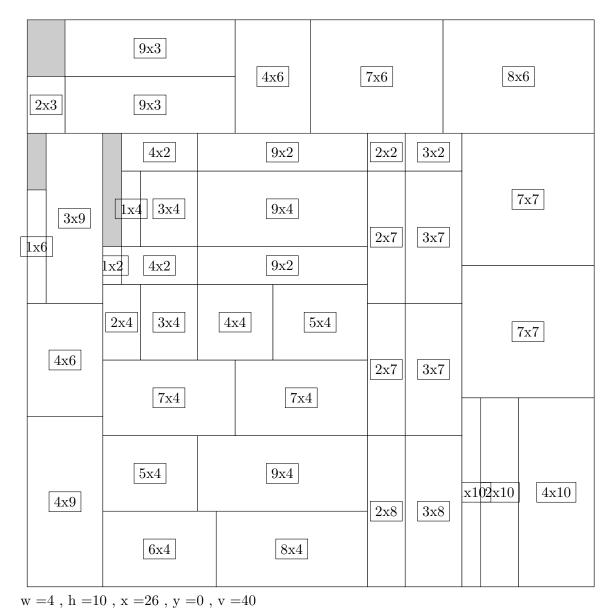
$$w = 3$$
, $h = 5$, $x = 10$, $y = 25$, $v = 15$

$$\mathbf{w}$$
 =1 , h =4 , x =9 , y =25 , v =4

$$\mathbf{w}$$
 =1 , h =1 , x =9 , y =29 , v =1

$$w=9$$
 , $h=7$, $x=0$, $y=\!18$, $v=\!63$

$$w$$
 =7 , h =5 , x =2 , y =25 , v =35



```
\begin{array}{l} w=2\ ,\, h=10\ ,\, x=24\ ,\, y=0\ ,\, v=20\\ w=1\ ,\, h=10\ ,\, x=23\ ,\, y=0\ ,\, v=10\\ w=7\ ,\, h=7\ ,\, x=23\ ,\, y=10\ ,\, v=49\\ w=7\ ,\, h=7\ ,\, x=23\ ,\, y=17\ ,\, v=49\\ w=3\ ,\, h=8\ ,\, x=20\ ,\, y=0\ ,\, v=24\\ w=3\ ,\, h=7\ ,\, x=20\ ,\, y=8\ ,\, v=21\\ w=3\ ,\, h=7\ ,\, x=20\ ,\, y=15\ ,\, v=21\\ w=3\ ,\, h=7\ ,\, x=20\ ,\, y=22\ ,\, v=6\\ w=2\ ,\, h=8\ ,\, x=18\ ,\, y=0\ ,\, v=16\\ w=2\ ,\, h=7\ ,\, x=18\ ,\, y=8\ ,\, v=14\\ w=2\ ,\, h=7\ ,\, x=18\ ,\, y=15\ ,\, v=14\\ w=2\ ,\, h=7\ ,\, x=18\ ,\, y=22\ ,\, v=4\\ w=8\ ,\, h=4\ ,\, x=10\ ,\, y=0\ ,\, v=32\\ w=6\ ,\, h=4\ ,\, x=4\ ,\, y=0\ ,\, v=24\\ w=9\ ,\, h=4\ ,\, x=9\ ,\, y=4\ ,\, v=36\\ \end{array}
```

```
w = 5, h = 4, x = 4, y = 4, v = 20
```

$$\mathbf{w}$$
 =7 , h =4 , x =11 , y =8 , v =28

$$w = 7$$
, $h = 4$, $x = 4$, $y = 8$, $v = 28$

$$w=\!5$$
 , $h=\!4$, $x=\!13$, $y=\!12$, $v=\!20$

$$w = 4$$
, $h = 4$, $x = 9$, $y = 12$, $v = 16$

$$\mathbf{w}$$
 =3 , h =4 , x =6 , y =12 , v =12

$$w = 2$$
, $h = 4$, $x = 4$, $y = 12$, $v = 8$

$$w = 9$$
, $h = 2$, $x = 9$, $y = 16$, $v = 18$

$$w = 4$$
, $h = 2$, $x = 5$, $y = 16$, $v = 8$

$$\mathbf{w}$$
 =1 , h =2 , x =4 , y =
16 , v =2

$$w = 9$$
, $h = 4$, $x = 9$, $y = 18$, $v = 36$

$$w = 3$$
, $h = 4$, $x = 6$, $y = 18$, $v = 12$

$$w=1$$
 , $h=4$, $x=5$, $y=\!18$, $v=\!4$

$$w=9$$
 , $h=2$, $x=9$, $y=22$, $v=18$

$$\mathbf{w}$$
 =4 , h =2 , x =5 , y =22 , v =8

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

$$\mathbf{w}$$
 =4 , h =6 , x =0 , y =9 , v =24

$$w = 3$$
, $h = 9$, $x = 1$, $y = 15$, $v = 27$

$$w = 1$$
, $h = 6$, $x = 0$, $y = 15$, $v = 6$

$$w = 8$$
, $h = 6$, $x = 22$, $y = 24$, $v = 48$

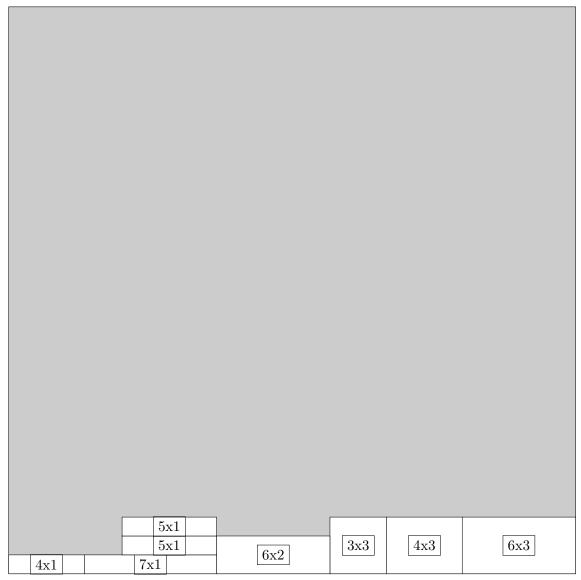
$$w$$
 =7 , h =6 , x =15 , y =24 , v =42

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

$$w = 9$$
, $h = 3$, $x = 2$, $y = 24$, $v = 27$

$$w = 2$$
, $h = 3$, $x = 0$, $y = 24$, $v = 6$

$$w = 9$$
, $h = 3$, $x = 2$, $y = 27$, $v = 27$



$$w = 6$$
, $h = 3$, $x = 24$, $y = 0$, $v = 18$

$$\mathbf{w}$$
 =4 , h =3 , x =20 , y =0 , v =12

$$\le =3$$
 , h =3 , x =17 , y =0 , v =9

$$w = 6$$
, $h = 2$, $x = 11$, $y = 0$, $v = 12$

$$\mathbf{w}$$
 =7 , h =1 , x =4 , y =0 , v =7

$$w = 4$$
, $h = 1$, $x = 0$, $y = 0$, $v = 4$

$$w = 5$$
, $h = 1$, $x = 6$, $y = 1$, $v = 5$

$$w = 5$$
, $h = 1$, $x = 6$, $y = 2$, $v = 5$