$ClassName: \ Class_02.2bp-47$

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

TypeNum: <u>68</u> Num: <u>100</u> OutS: <u>3600</u> InS: <u>3121</u> Rate: <u>0.867</u>

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: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

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

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.063 \ s} \\ {\rm TotalTime:} \ \underline{0.125 \ s} \\ \end{array}$

[3x3] [5x3]	[10x3]			
10x8	8x8	3x10	9x10 10x1	
10x9	9x9		9x9	2x8 2x2
[10x10]	10x10		10x1 10x9	

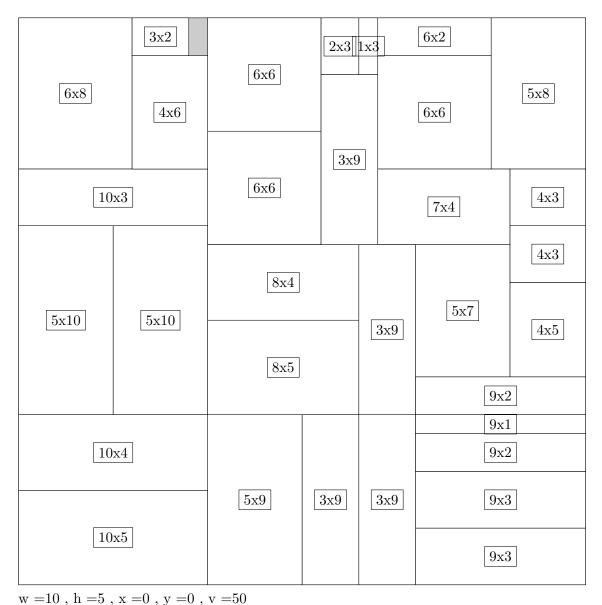
```
w = 10, h = 10, x = 0, y = 0, v = 100
\mathbf{w} =10 , \mathbf{h} =10 , \mathbf{x} =10 , \mathbf{y} =0 , \mathbf{v} =100
w = 10, h = 9, x = 20, y = 0, v = 90
\mathbf{w} =10 , h =9 , x =0 , y =10 , v =90
w =9 , h =10 , x =21 , y =20 , v =90
w =9 , h =9 , x =10 , y =10 , v =81
w = 9, h = 9, x = 19, y = 10, v = 81
w = 10, h = 8, x = 0, y = 19, v = 80
w = 8, h = 8, x = 10, y = 19, v = 64
\mathbf{w} =2 , h =2 , x =28 , y =10 , v =4
w = 10, h = 3, x = 8, y = 27, v = 30
w = 3, h = 10, x = 18, y = 20, v = 30
w = 2, h = 8, x = 28, y = 12, v = 16
w = 5, h = 3, x = 3, y = 27, v = 15
w = 10, h = 1, x = 20, y = 9, v = 10
w=\!10 , h=\!1 , x=\!18 , y=\!19 , v=\!10
```

 $\mathbf{w}=\!3$, $\mathbf{h}=\!\!3$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!27$, $\mathbf{v}=\!\!9$

7x2				[7x2]		
8x9	[7x7]	8x6		7x5		
	[7x7]	8x7		[7x6]		
8x9						
	[7x9]			[9x4]		
		6x10		9x6		
8x10						
	[10x7]		9x7	7	3x7	

$$\begin{array}{l} w=8\;,\;h=10\;,\;x=0\;,\;y=0\;,\;v=80\\ w=8\;,\;h=9\;,\;x=0\;,\;y=10\;,\;v=72\\ w=8\;,\;h=9\;,\;x=0\;,\;y=19\;,\;v=72\\ w=10\;,\;h=7\;,\;x=8\;,\;y=0\;,\;v=70\\ w=9\;,\;h=7\;,\;x=18\;,\;y=0\;,\;v=63\\ w=7\;,\;h=9\;,\;x=8\;,\;y=7\;,\;v=63\\ w=6\;,\;h=10\;,\;x=15\;,\;y=7\;,\;v=60\\ w=8\;,\;h=7\;,\;x=15\;,\;y=17\;,\;v=56\\ w=9\;,\;h=6\;,\;x=21\;,\;y=7\;,\;v=54\\ w=7\;,\;h=7\;,\;x=8\;,\;y=16\;,\;v=49\\ w=7\;,\;h=7\;,\;x=8\;,\;y=23\;,\;v=49\\ w=8\;,\;h=6\;,\;x=15\;,\;y=24\;,\;v=48\\ w=7\;,\;h=6\;,\;x=23\;,\;y=17\;,\;v=42\\ w=9\;,\;h=4\;,\;x=21\;,\;y=13\;,\;v=36\\ w=7\;,\;h=5\;,\;x=23\;,\;y=23\;,\;v=35\\ w=3\;,\;h=7\;,\;x=27\;,\;y=0\;,\;v=21\\ \end{array}$$

 $\begin{array}{l} w = 7 \ , \ h = 2 \ , \ x = 0 \ , \ y = 28 \ , \ v = 14 \\ w = 7 \ , \ h = 2 \ , \ x = 23 \ , \ y = 28 \ , \ v = 14 \end{array}$



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

w =5 , h =10 , x =5 , y =9 , v =50

w =6 , h =8 , x =0 , y =22 , v =48

w =5 , h =9 , x =10 , y =0 , v =45

w =10 , h =4 , x =0 , y =5 , v =40

w =8 , h =5 , x =10 , y =9 , v =40

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

w =6 , h =6 , x =19 , y =22 , v =36

w =6 , h =6 , x =10 , y =18 , v =36

w =6 , h =6 , x =10 , y =14 , v =36

w =5 , h =7 , x =21 , y =11 , v =35

w =8 , h =4 , x =10 , y =14 , v =32

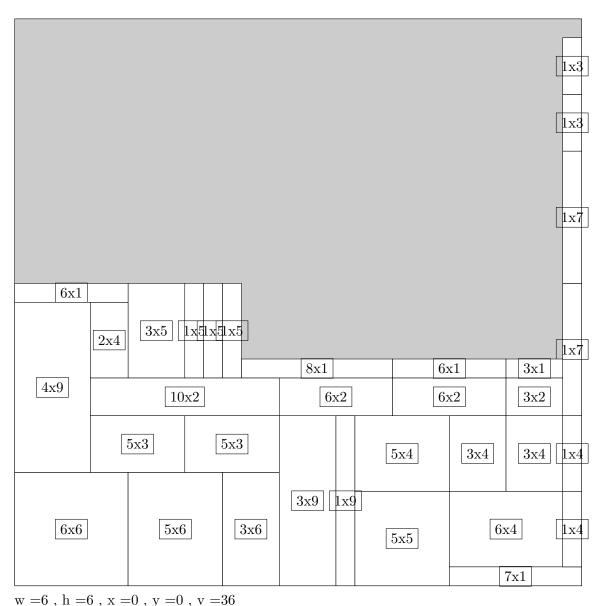
w =10 , h =3 , x =0 , y =19 , v =30

w =7 , h =4 , x =19 , y =18 , v =28

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

```
\begin{array}{l} w=9\;,\;h=3\;,\;x=21\;,\;y=3\;,\;v=27\\ w=3\;,\;h=9\;,\;x=15\;,\;y=0\;,\;v=27\\ w=3\;,\;h=9\;,\;x=18\;,\;y=0\;,\;v=27\\ w=3\;,\;h=9\;,\;x=18\;,\;y=9\;,\;v=27\\ w=3\;,\;h=9\;,\;x=16\;,\;y=18\;,\;v=27\\ w=4\;,\;h=6\;,\;x=6\;,\;y=22\;,\;v=24\\ w=4\;,\;h=5\;,\;x=26\;,\;y=11\;,\;v=20\\ w=9\;,\;h=2\;,\;x=21\;,\;y=6\;,\;v=18\\ w=9\;,\;h=2\;,\;x=21\;,\;y=9\;,\;v=18\\ w=9\;,\;h=2\;,\;x=21\;,\;y=9\;,\;v=18\\ w=6\;,\;h=2\;,\;x=19\;,\;y=28\;,\;v=12\\ w=4\;,\;h=3\;,\;x=26\;,\;y=16\;,\;v=12\\ w=4\;,\;h=3\;,\;x=26\;,\;y=19\;,\;v=12\\ w=4\;,\;h=3\;,\;x=26\;,\;y=19\;,\;v=12\\ w=9\;,\;h=1\;,\;x=21\;,\;y=8\;,\;v=9\\ w=3\;,\;h=2\;,\;x=6\;,\;y=28\;,\;v=6\\ w=2\;,\;h=3\;,\;x=16\;,\;y=27\;,\;v=6\\ \end{array}
```

w = 1, h = 3, x = 18, y = 27, v = 3



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

w = 3, h = 9, x = 14, y = 0, v = 27

w = 5, h = 5, x = 18, y = 0, v = 25

w = 6, h = 4, x = 23, y = 1, v = 24

w = 10, h = 2, x = 4, y = 9, v = 20

w = 5, h = 4, x = 18, y = 5, v = 20

w = 3, h = 6, x = 11, y = 0, v = 18

w = 5, h = 3, x = 9, y = 6, v = 15

w = 5, h = 3, x = 4, y = 6, v = 15

w = 5, h = 3, x = 4, y = 6, v = 15

w = 3, h = 5, x = 6, y = 11, v = 15

w = 6, h = 2, x = 14, y = 9, v = 12

w = 6, h = 2, x = 20, y = 9, v = 12

w = 3, h = 4, x = 23, y = 5, v = 12

w = 3, h = 4, x = 26, y = 5, v = 12

w = 1, h = 9, x = 17, y = 0, v = 9
```

```
w = 8, h = 1, x = 12, y = 11, v = 8
w = 2, h = 4, x = 4, y = 11, v = 8
w = 7, h = 1, x = 23, y = 0, v = 7
w = 1, h = 7, x = 29, y = 9, v = 7
w = 1, h = 7, x = 29, y = 16, v = 7
w = 6, h = 1, x = 0, y = 15, v = 6
w = 6, h = 1, x = 20, y = 11, v = 6
\mathbf{w} =3 , h =2 , x =26 , y =9 , v =6
w = 1, h = 5, x = 9, y = 11, v = 5
w = 1, h = 5, x = 10, y = 11, v = 5
w = 1, h = 5, x = 11, y = 11, v = 5
w = 4, h = 9, x = 0, y = 6, v = 36
w = 1, h = 4, x = 29, y = 1, v = 4
w = 1, h = 4, x = 29, y = 5, v = 4
w = 3, h = 1, x = 26, y = 11, v = 3
w = 1, h = 3, x = 29, y = 23, v = 3
w = 1, h = 3, x = 29, y = 26, v = 3
```