$ClassName: \ Class_02.2bp-48$

BinSize: 30×30 ReduceSize: 30×30

TypeNum: <u>67</u> Num: <u>100</u> OutS: <u>3600</u> InS: <u>2986</u> Rate: <u>0.829</u>

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

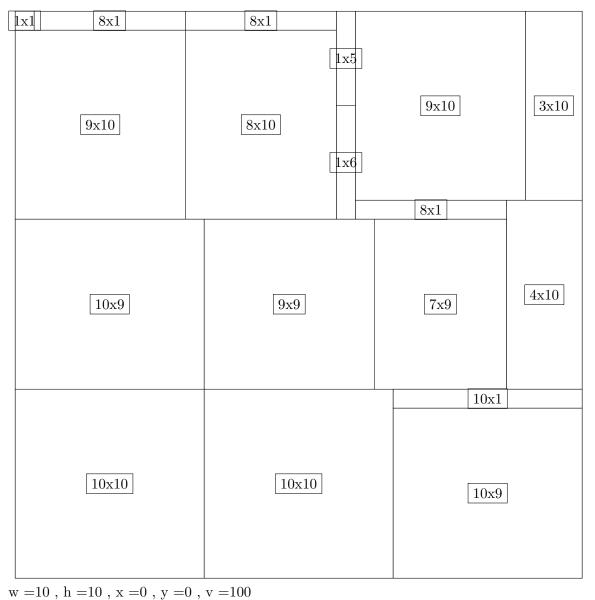
LBWithCut: $\underline{\mathbf{4}}$ NodeCut: $\underline{\mathbf{0}}$

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

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.078 \ s} \\ {\rm TotalTime:} \ \underline{0.141 \ s} \\ \end{array}$



```
w =10, h =10, x =0, y =0, v =100
w =10, h =10, x =10, y =0, v =100
w =10, h =9, x =20, y =0, v =90
w =10, h =9, x =0, y =10, v =90
w =9, h =10, x =18, y =20, v =90
w =9, h =10, x =0, y =19, v =90
w =9, h =9, x =10, y =10, v =81
w =8, h =10, x =9, y =19, v =80
w =7, h =9, x =19, y =10, v =63
w =4, h =10, x =26, y =10, v =63
w =4, h =10, x =26, y =10, v =40
w =3, h =10, x =27, y =20, v =30
w =10, h =1, x =20, y =9, v =10
w =8, h =1, x =18, y =19, v =8
w =8, h =1, x =1, y =29, v =8
w =8, h =1, x =1, y =29, v =8
w =1, h =6, x =17, y =19, v =6
```

 $\begin{array}{l} w = 1 \ , \ h = \! 5 \ , \ x = \! 17 \ , \ y = \! 25 \ , \ v = \! 5 \\ w = \! 1 \ , \ h = \! 1 \ , \ x = \! 0 \ , \ y = \! 29 \ , \ v = \! 1 \end{array}$

	8x5		10x5		5x3
5x10 2x10	[8x5]		10x7		5x9
1x3 5x2	9x2				
6x1 7x1 7x2 7x2 7x4	5x10	5x10		7x10	6x9
10x8		9x8]	[5x8]	6x9

```
w = 10, h = 8, x = 0, y = 0, v = 80
w=9 , h=\!8 , x=\!10 , y=\!0 , v=\!72
\le =10 , h =7 , x =15 , y =18 , v =70
w = 7, h = 10, x = 17, y = 8, v = 70
w = 5, h = 2, x = 1, y = 18, v = 10
w=6 , h=9 , x=\!24 , y=\!0 , v=\!54
w = 6, h = 9, x = 24, y = 9, v = 54
w = 10, h = 5, x = 15, y = 25, v = 50
w = 5, h = 10, x = 12, y = 8, v = 50
w = 5, h = 10, x = 7, y = 8, v = 50
w = 5, h = 10, x = 0, y = 20, v = 50
w = 5, h = 9, x = 25, y = 18, v = 45
w =8 , h =5 , x =7 , y =20 , v =40
w = 8, h = 5, x = 7, y = 25, v = 40
w = 5, h = 8, x = 19, y = 0, v = 40
w=7 , h=4 , x=0 , y=8 , v=\!28
```

w = 2, h = 10, x = 5, y = 20, v = 20

w = 9, h = 2, x = 6, y = 18, v = 18

w =5 , h =3 , x =25 , y =27 , v =15

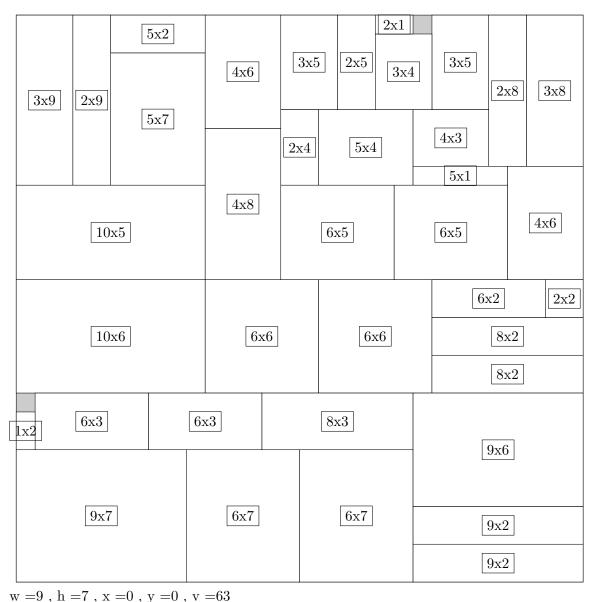
 \mathbf{w} =7 , h =2 , x =0 , y =12 , v =14

 \mathbf{w} =7 , h =2 , x =0 , y =14 , v =14

 \mathbf{w} =7 , h =1 , x =0 , y = 16 , v =7

w = 6, h = 1, x = 1, y = 17, v = 6

 \mathbf{w} =1 , h =3 , x =0 , y =17 , v =3



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w =10 , h =6 , x =0 , y =10 , v =60

w =10 , h =5 , x =0 , y =16 , v =50

w =6 , h =7 , x =9 , y =0 , v =42

w =6 , h =7 , x =15 , y =0 , v =42

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

w =6 , h =6 , x =16 , y =10 , v =36

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

w =4 , h =8 , x =10 , y =16 , v =32

w =6 , h =5 , x =14 , y =16 , v =30

w =6 , h =5 , x =20 , y =16 , v =30

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

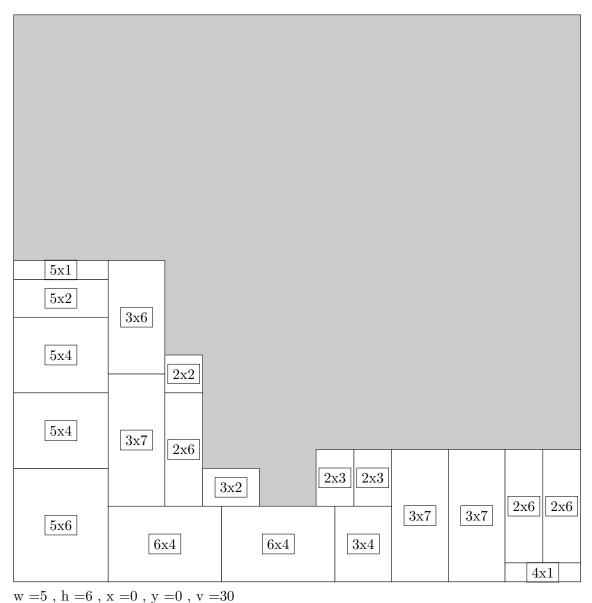
w =8 , h =3 , x =13 , y =7 , v =24

w =4 , h =6 , x =26 , y =16 , v =24

w =4 , h =6 , x =26 , y =16 , v =24

w =3 , h =8 , x =27 , y =22 , v =24
```

```
w = 5, h = 4, x = 16, y = 21, v = 20
w = 9, h = 2, x = 21, y = 0, v = 18
w = 9, h = 2, x = 21, y = 2, v = 18
w = 6, h = 3, x = 7, y = 7, v = 18
w = 6, h = 3, x = 1, y = 7, v = 18
w = 2, h = 9, x = 3, y = 21, v = 18
w = 8, h = 2, x = 22, y = 10, v = 16
w =8 , h =2 , x =22 , y =12 , v =16
w = 2, h = 8, x = 25, y = 22, v = 16
w = 3, h = 5, x = 22, y = 25, v = 15
w = 3, h = 5, x = 14, y = 25, v = 15
w = 6, h = 2, x = 22, y = 14, v = 12
w = 4, h = 3, x = 21, y = 22, v = 12
w = 3, h = 4, x = 19, y = 25, v = 12
w = 5, h = 2, x = 5, y = 28, v = 10
w = 9, h = 6, x = 21, y = 4, v = 54
w = 2, h = 5, x = 17, y = 25, v = 10
w = 2, h = 4, x = 14, y = 21, v = 8
w = 5, h = 1, x = 21, y = 21, v = 5
w = 2, h = 2, x = 28, y = 14, v = 4
\mathbf{w} =2 , h =1 , x =19 , y =29 , v =2
w = 1, h = 2, x = 0, y = 7, v = 2
```



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

w = 6, h = 4, x = 5, y = 0, v = 24

w = 6, h = 4, x = 11, y = 0, v = 24

w = 3, h = 7, x = 20, y = 0, v = 21

w = 3, h = 7, x = 23, y = 0, v = 21

w = 3, h = 7, x = 5, y = 4, v = 21

w = 5, h = 4, x = 0, y = 6, v = 20

w = 5, h = 4, x = 0, y = 10, v = 20

w = 3, h = 6, x = 5, y = 11, v = 18

w = 3, h = 4, x = 17, y = 0, v = 12

w = 2, h = 6, x = 26, y = 1, v = 12

w = 2, h = 6, x = 28, y = 1, v = 12

w = 2, h = 6, x = 8, y = 4, v = 12

w = 5, h = 2, x = 0, y = 14, v = 10

w = 3, h = 2, x = 10, y = 4, v = 6

w = 2, h = 3, x = 18, y = 4, v = 6
```

 $\begin{array}{l} w=2\ ,\, h=3\ ,\, x=16\ ,\, y=4\ ,\, v=6\\ w=5\ ,\, h=1\ ,\, x=0\ ,\, y=16\ ,\, v=5\\ w=4\ ,\, h=1\ ,\, x=26\ ,\, y=0\ ,\, v=4\\ w=2\ ,\, h=2\ ,\, x=8\ ,\, y=10\ ,\, v=4 \end{array}$