$ClassName: {\bf Class\_02.2bp\text{-}41}$ 

BinSize:  $30 \times 30$ ReduceSize:  $30 \times 30$ 

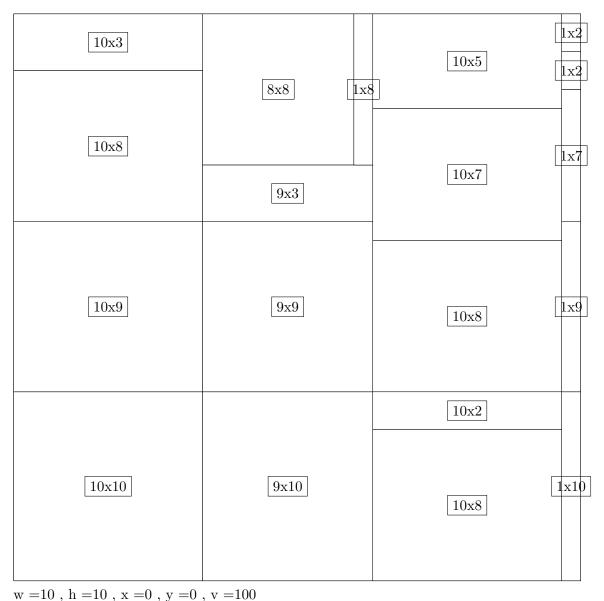
TypeNum: <u>63</u> Num: <u>100</u> OutS: <u>3600</u> InS: <u>3040</u> Rate: <u>0.844</u>

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

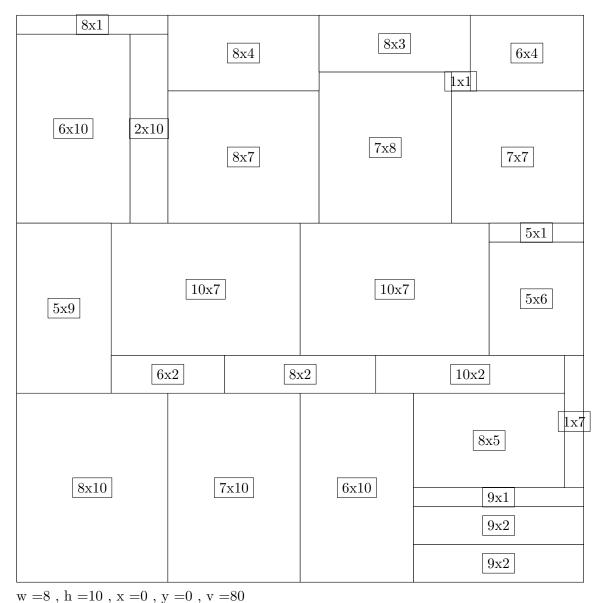
isOpt: **true** 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.079 sTotalTime: 0.141 s



w =10 , h =10 , x =0 , y =0 , v =100
w =10 , h =9 , x =0 , y =10 , v =90
w =9 , h =10 , x =10 , y =0 , v =90
w =9 , h =9 , x =10 , y =10 , v =81
w =10 , h =8 , x =0 , y =19 , v =80
w =10 , h =8 , x =19 , y =0 , v =80
w =10 , h =8 , x =19 , y =10 , v =80
w =10 , h =8 , x =19 , y =10 , v =80
w =10 , h =7 , x =19 , y =18 , v =70
w =8 , h =8 , x =10 , y =22 , v =64
w =10 , h =5 , x =19 , y =25 , v =50
w =10 , h =3 , x =0 , y =27 , v =30
w =9 , h =3 , x =10 , y =19 , v =27
w =10 , h =2 , x =19 , y =8 , v =20
w =1 , h =10 , x =29 , y =0 , v =10
w =1 , h =9 , x =29 , y =10 , v =9
w =1 , h =8 , x =18 , y =22 , v =8

 $\begin{array}{l} w = 1 \ , \ h = 7 \ , \ x = 29 \ , \ y = 19 \ , \ v = 7 \\ w = 1 \ , \ h = 2 \ , \ x = 29 \ , \ y = 26 \ , \ v = 2 \\ w = 1 \ , \ h = 2 \ , \ x = 29 \ , \ y = 28 \ , \ v = 2 \end{array}$ 



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w =10 , h =7 , x =5 , y =12 , v =70

w =10 , h =7 , x =15 , y =12 , v =70

w =7 , h =10 , x =8 , y =0 , v =70

w =6 , h =10 , x =15 , y =0 , v =60

w =6 , h =10 , x =0 , y =19 , v =60

w =8 , h =7 , x =8 , y =19 , v =56

w =7 , h =8 , x =16 , y =19 , v =56

w =7 , h =7 , x =23 , y =19 , v =49

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

w =5 , h =6 , x =25 , y =12 , v =30

w =8 , h =5 , x =21 , y =5 , v =40

w =8 , h =4 , x =8 , y =26 , v =32

w =8 , h =3 , x =16 , y =27 , v =24

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

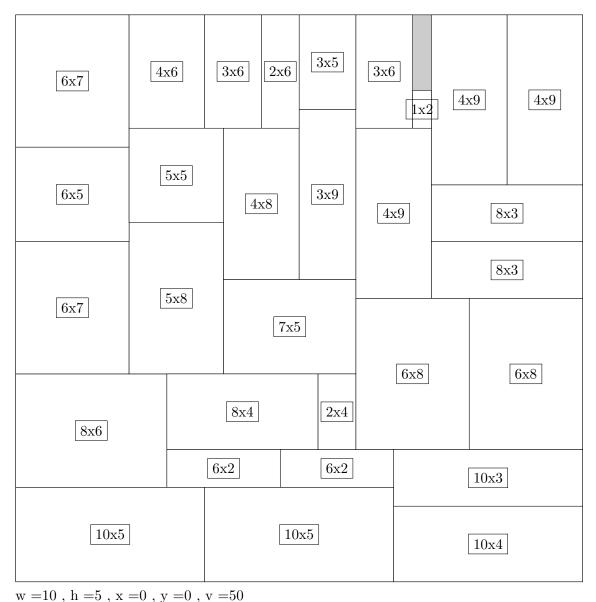
w =10 , h =2 , x =19 , y =10 , v =20
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w=2 ,  $h=\!10$  ,  $x=\!6$  ,  $y=\!19$  ,  $v=\!20$ w = 9, h = 2, x = 21, y = 0, v = 18w=9 , h=2 ,  $x=\!21$  ,  $y=\!2$  ,  $v=\!18$  $\mathbf{w}$  =8 , h =2 , x =11 , y =10 , v =16  $\mathbf{w}$  =6 , h =2 , x =5 , y =10 , v =12 w = 9, h = 1, x = 21, y = 4, v = 9w =8 , h =1 , x =0 , y =29 , v =8

w=1 , h=7 ,  $x=\!29$  ,  $y=\!5$  ,  $v=\!7$ 

w =5 , h =1 , x =25 , y =18 , v =5

 $\mathbf{w} = \! 1$  ,  $\mathbf{h} = \! 1$  ,  $\mathbf{x} = \! 23$  ,  $\mathbf{y} = \! 26$  ,  $\mathbf{v} = \! 1$ 



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

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

w =8, h =6, x =0, y =5, v =48

w =6, h =8, x =18, y =7, v =48

w =6, h =8, x =24, y =7, v =48

w =6, h =7, x =0, y =11, v =42

w =10, h =4, x =20, y =0, v =40

w =5, h =8, x =6, y =11, v =40

w =4, h =9, x =18, y =15, v =36

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

w =4, h =9, x =22, y =21, v =36

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

w =8, h =4, x =8, y =7, v =32

w =4, h =8, x =11, y =16, v =32

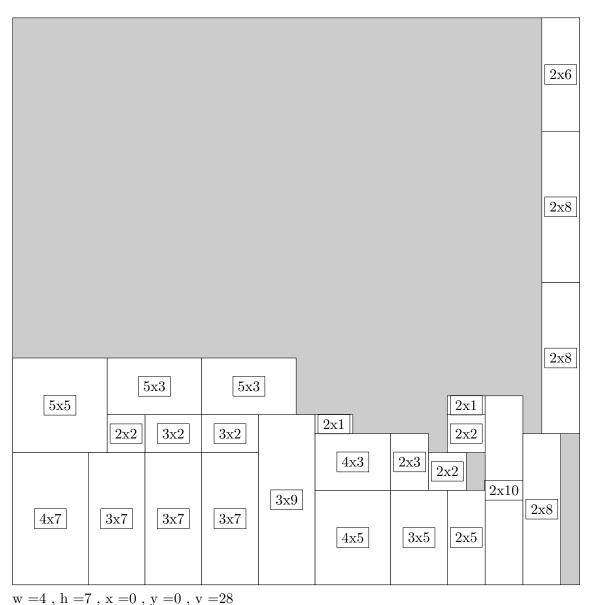
w =4, h =8, x =11, y =16, v =32

w =10, h =3, x =20, y =4, v =30

w =6, h =5, x =0, y =18, v =30
```

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\begin{array}{l} w=6\;,\;h=7\;,\;x=0\;,\;y=23\;,\;v=42\\ w=3\;,\;h=9\;,\;x=15\;,\;y=16\;,\;v=27\\ w=5\;,\;h=5\;,\;x=6\;,\;y=19\;,\;v=25\\ w=8\;,\;h=3\;,\;x=22\;,\;y=15\;,\;v=24\\ w=8\;,\;h=3\;,\;x=22\;,\;y=18\;,\;v=24\\ w=4\;,\;h=6\;,\;x=6\;,\;y=24\;,\;v=24\\ w=3\;,\;h=6\;,\;x=10\;,\;y=24\;,\;v=18\\ w=3\;,\;h=6\;,\;x=18\;,\;y=24\;,\;v=18\\ w=3\;,\;h=6\;,\;x=18\;,\;y=24\;,\;v=18\\ w=3\;,\;h=5\;,\;x=15\;,\;y=25\;,\;v=15\\ w=6\;,\;h=2\;,\;x=14\;,\;y=5\;,\;v=12\\ w=6\;,\;h=2\;,\;x=8\;,\;y=5\;,\;v=12\\ w=2\;,\;h=6\;,\;x=13\;,\;y=24\;,\;v=12\\ \end{array}
```

 $\begin{array}{l} w = 2 \ , \ h = 4 \ , \ x = 16 \ , \ y = 7 \ , \ v = 8 \\ w = 1 \ , \ h = 2 \ , \ x = 21 \ , \ y = 24 \ , \ v = 2 \end{array}$ 



$$w = 5$$
,  $h = 5$ ,  $x = 0$ ,  $y = 7$ ,  $v = 25$ 

$$\begin{array}{l} w = 3 \ , \ h = 7 \ , \ x = 7 \ , \ y = 0 \ , \ v = 21 \\ w = 3 \ , \ h = 7 \ , \ x = 10 \ , \ y = 0 \ , \ v = 21 \end{array}$$

$$w = 4$$
,  $h = 7$ ,  $x = 10$ ,  $y = 0$ ,  $v = 21$   
 $w = 4$ ,  $h = 5$ ,  $x = 16$ ,  $y = 0$ ,  $v = 20$ 

$$w = 4$$
,  $h = 3$ ,  $x = 10$ ,  $y = 0$ ,  $v = 20$   
 $w = 2$ ,  $h = 10$ ,  $x = 25$ ,  $y = 0$ ,  $v = 20$ 

$$w = 2$$
,  $h = 8$ ,  $x = 27$ ,  $y = 0$ ,  $v = 16$ 

$$w = 2$$
,  $h = 8$ ,  $x = 28$ ,  $y = 8$ ,  $v = 16$ 

$$\mathbf{w}$$
 =2 , h =8 , x =28 , y =16 , v =16

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

$$w$$
 =5 , h =3 , x =10 , y =9 , v =15

$$\le 3$$
 , h =  
5 , x =  
20 , y =  
0 , v =  
15

$$w = 4$$
,  $h = 3$ ,  $x = 16$ ,  $y = 5$ ,  $v = 12$ 

$$w = 2$$
,  $h = 6$ ,  $x = 28$ ,  $y = 24$ ,  $v = 12$ 

$$w$$
 =2 , h =5 , x =23 , y =0 , v =10

$$w = 3$$
,  $h = 2$ ,  $x = 10$ ,  $y = 7$ ,  $v = 6$ 

$$\mathbf{w}$$
 =3 , h =2 , x =7 , y =7 , v =6

$$\mathbf{w}$$
 =2 , h =3 , x =20 , y =5 , v =6

$$\mathbf{w}$$
 =2 , h =2 , x =5 , y =7 , v =4

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

$$w$$
 =2 , h =2 , x =23 , y =7 , v =4

$$\mathbf{w}$$
 =2 , h =1 , x =23 , y =9 , v =2

$$\mathbf{w}$$
 =2 , h =1 , x =16 , y =8 , v =2