$ClassName: \ Class_02.2bp-43$

BinSize: 30×30 ReduceSize: 30×30

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

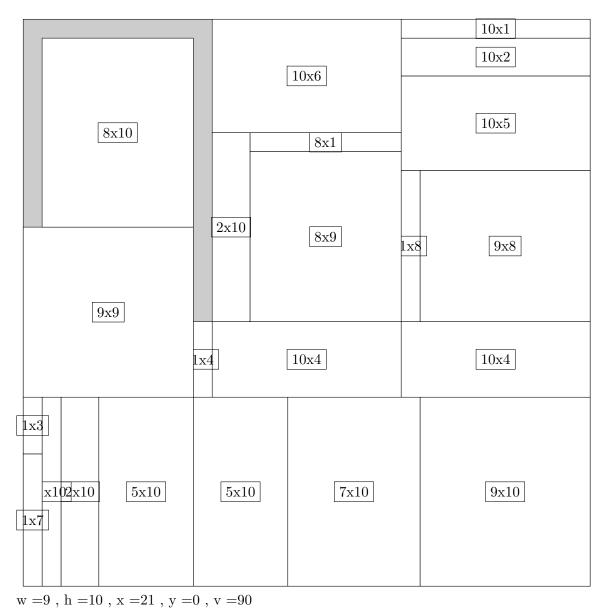
ExtendedNodeCnt: $\underline{\mathbf{1}}$

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: **true**

TimeOnInitSolution: $\underline{600.000 \text{ s}}$

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.094 sTotalTime: 600.391 s



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\begin{array}{l} w=7\ ,\ h=10\ ,\ x=14\ ,\ y=0\ ,\ v=70\\ w=5\ ,\ h=10\ ,\ x=9\  ,\ y=0\  ,\ v=50\\ w=5\  ,\ h=10\  ,\ x=4\  ,\ y=0\  ,\ v=50\\ w=2\  ,\ h=10\  ,\ x=2\  ,\ y=0\  ,\ v=20\\ w=1\  ,\ h=10\  ,\ x=1\  ,\ y=0\  ,\ v=10\\ w=1\  ,\ h=7\  ,\ x=0\  ,\ y=0\  ,\ v=10\\ w=1\  ,\ h=3\  ,\ x=0\  ,\ y=7\  ,\ v=3\\ w=10\  ,\ h=4\  ,\ x=20\  ,\ y=10\  ,\ v=40\\ w=10\  ,\ h=4\  ,\ x=9\  ,\ y=10\  ,\ v=40\\ w=1\  ,\ h=4\  ,\ x=9\  ,\ y=10\  ,\ v=40\\ w=9\  ,\ h=8\  ,\ x=21\  ,\ y=14\  ,\ v=72\\ w=1\  ,\ h=8\  ,\ x=20\  ,\ y=14\  ,\ v=8\\ w=10\  ,\ h=5\  ,\ x=20\  ,\ y=27\  ,\ v=20\\ w=10\  ,\ h=1\  ,\ x=20\  ,\ y=29\  ,\ v=10\\ \end{array}
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 $\begin{array}{l} w=8 \ , \ h=9 \ , \ x=12 \ , \ y=14 \ , \ v=72 \\ w=8 \ , \ h=1 \ , \ x=12 \ , \ y=23 \ , \ v=8 \\ w=2 \ , \ h=10 \ , \ x=10 \ , \ y=14 \ , \ v=20 \\ w=10 \ , \ h=6 \ , \ x=10 \ , \ y=24 \ , \ v=60 \\ w=9 \ , \ h=9 \ , \ x=0 \ , \ y=10 \ , \ v=81 \\ w=8 \ , \ h=10 \ , \ x=1 \ , \ y=19 \ , \ v=80 \end{array}$

			1x1 3x1			6x2			8x4	
2x9 3x9		3x9	4x8	4:	x9	6x7			8x5	
									9x2	
4x9	42	x9]	6x9			[7x9]	9x7			
6x4		[7x4]			x4	6x4	3:	x3	[6x3]	
6x8			7x8		8x8			9x4		
								9x5		

$$w = 9$$
, $h = 4$, $x = 21$, $y = 5$, $v = 30$
 $w = 6$, $h = 3$, $x = 24$, $y = 9$, $v = 18$

$$w = 3$$
, $h = 3$, $x = 21$, $y = 9$, $v = 9$

$$\le =8$$
 , $\le =8$, $\ge =13$, y =0 , v =64

$$\mathbf{w}$$
 =6 , h =4 , x =15 , y =8 , v =24

$$w$$
 =2 , h =4 , x =13 , y =8 , v =8

$$w = 7$$
, $h = 4$, $x = 0$, $y = 0$, $v = 28$
 $w = 6$, $h = 8$, $x = 0$, $y = 0$, $v = 48$

$$w = 6$$
, $h = 4$, $x = 0$, $y = 8$, $v = 24$

$$w = 0$$
, $h = 1$, $x = 0$, $y = 0$, $v = 21$
 $w = 9$, $h = 7$, $x = 21$, $y = 12$, $v = 63$

$$w = 9$$
, $h = 2$, $x = 21$, $y = 19$, $v = 18$

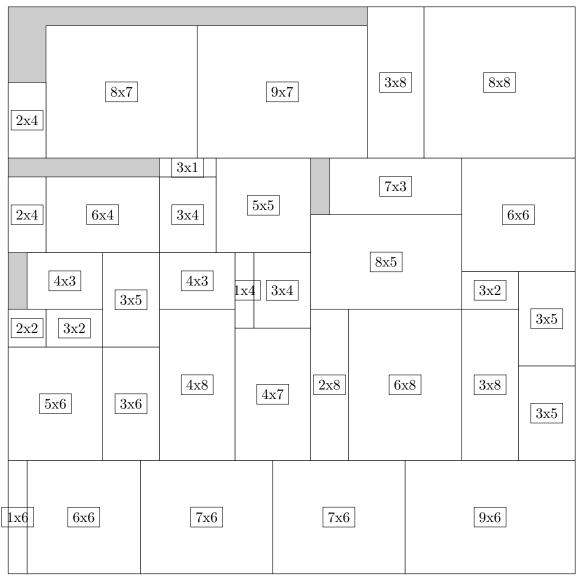
$$\mathbf{w}$$
 =7 , h =9 , x =14 , y =12 , v =63

$$w = 6$$
, $h = 9$, $x = 8$, $y = 12$, $v = 54$

$$\mathbf{w}$$
 =4 , h =9 , x =4 , y =12 , v =36

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\begin{array}{l} w=4\;,\;h=9\;,\;x=0\;,\;y=12\;,\;v=36\\ w=8\;,\;h=5\;,\;x=22\;,\;y=21\;,\;v=40\\ w=8\;,\;h=4\;,\;x=22\;,\;y=26\;,\;v=32\\ w=6\;,\;h=7\;,\;x=16\;,\;y=21\;,\;v=42\\ w=6\;,\;h=2\;,\;x=16\;,\;y=28\;,\;v=12\\ w=4\;,\;h=9\;,\;x=12\;,\;y=21\;,\;v=36\\ w=4\;,\;h=8\;,\;x=8\;,\;y=21\;,\;v=32\\ w=3\;,\;h=1\;,\;x=9\;,\;y=29\;,\;v=3\\ w=1\;,\;h=1\;,\;x=8\;,\;y=29\;,\;v=1\\ w=3\;,\;h=9\;,\;x=5\;,\;y=21\;,\;v=27\\ w=3\;,\;h=9\;,\;x=2\;,\;y=21\;,\;v=27\\ \end{array}
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w=2 , h=9 , x=0 , y=21 , v=18



$$w = 9$$
, $h = 6$, $x = 21$, $y = 0$, $v = 54$

$$\mathbf{w}$$
 =7 , h =6 , x =14 , y =0 , v =42

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

$$\mathbf{w}$$
 =6 , h =6 , x =1 , y =0 , v =36

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

$$\le 3$$
 , h =5 , x =27 , y =6 , v =15

$$w = 3$$
, $h = 5$, $x = 27$, $y = 11$, $v = 15$

$$w = 3$$
, $n = 3$, $x = 21$, $y = 11$, $v = 16$

$$w = 3$$
, $h = 8$, $x = 24$, $y = 6$, $v = 24$

$$\mathbf{w}$$
 =3 , h =2 , x =24 , y =14 , v =6

$$w = 6$$
, $h = 6$, $x = 24$, $y = 16$, $v = 36$

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

$$w = 2$$
, $h = 8$, $x = 16$, $y = 6$, $v = 16$

$$w = 8$$
, $h = 5$, $x = 16$, $y = 14$, $v = 40$

$$w=7$$
 , $h=3$, $x=\!17$, $y=\!19$, $v=\!21$

$$w = 4$$
, $h = 7$, $x = 12$, $y = 6$, $v = 28$

$$w = 3$$
, $h = 4$, $x = 13$, $y = 13$, $v = 12$

```
w = 1, h = 4, x = 12, y = 13, v = 4
w = 4, h = 8, x = 8, y = 6, v = 32
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$$w = 1, h = 0, k = 0, y = 0, v = 0$$

$$\mathbf{w}$$
 =4 , h =3 , x =8 , y =14 , v =12

$$\mathbf{w}$$
 =3 , h =6 , x =5 , y =6 , v =18

$$w = 3$$
, $h = 5$, $x = 5$, $y = 12$, $v = 15$

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

$$w=3$$
 , $h=2$, $x=2$, $y=\!12$, $v=\!6$

$$w = 2$$
, $h = 2$, $x = 0$, $y = 12$, $v = 4$

$$w = 4$$
, $h = 3$, $x = 1$, $y = 14$, $v = 12$

$$w = 5$$
, $h = 5$, $x = 11$, $y = 17$, $v = 25$

$$w = 3$$
, $h = 4$, $x = 8$, $y = 17$, $v = 12$

$$w = 3$$
, $h = 1$, $x = 8$, $y = 21$, $v = 3$

$$w = 6$$
, $h = 4$, $x = 2$, $y = 17$, $v = 24$

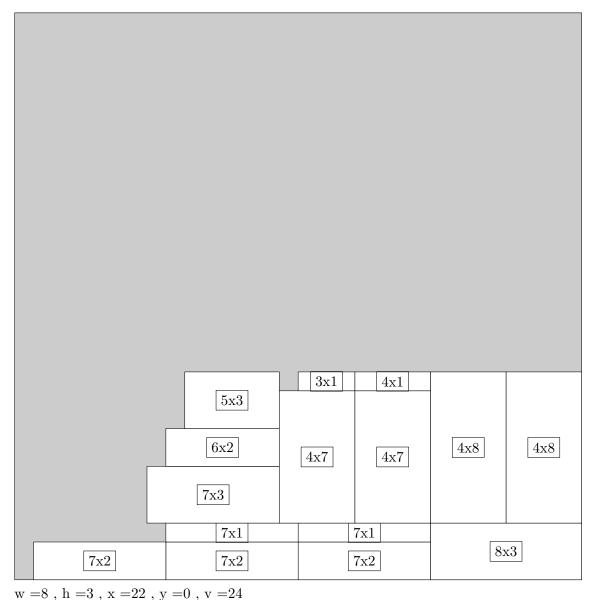
$$w = 2$$
, $h = 4$, $x = 0$, $y = 17$, $v = 8$

$$w = 8$$
, $h = 8$, $x = 22$, $y = 22$, $v = 64$

$$w$$
 =3 , h =8 , x =19 , y =22 , v =24

$$w = 9$$
, $h = 7$, $x = 10$, $y = 22$, $v = 63$
 $w = 8$, $h = 7$, $x = 2$, $y = 22$, $v = 56$

$$w = 0$$
, $h = 1$, $x = 2$, $y = 22$, $v = 8$
 $w = 2$, $h = 4$, $x = 0$, $y = 22$, $v = 8$



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w = 7, h = 2, x = 15, y = 0, v = 14
w = 7, h = 1, x = 15, y = 2, v = 7
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$$\mathbf{w}$$
 =7 , h =2 , x =8 , y =0 , v =
14

$$w = 7$$
, $h = 1$, $x = 8$, $y = 2$, $v = 7$

$$w = 4$$
, $h = 8$, $x = 22$, $y = 3$, $v = 32$

$$\mathbf{w}$$
 =4 , h =7 , x =18 , y =3 , v =28

$$\mathbf{w}$$
 =4 , h =1 , x =18 , y =10 , v =4

$$\mathbf{w}$$
 =4 , h =7 , x =14 , y =3 , v =28

$$w = 3$$
, $h = 1$, $x = 15$, $y = 10$, $v = 3$

$$w = 7$$
, $h = 3$, $x = 7$, $y = 3$, $v = 21$

$$\mathbf{w}$$
 =6 , h =2 , x =8 , y =6 , v =12

$$w = 5$$
, $h = 3$, $x = 9$, $y = 8$, $v = 15$