$ClassName: \ Class\_02.2bp-27$ 

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

TypeNum: <u>49</u> Num: <u>60</u> OutS: <u>2700</u> InS: <u>1883</u> Rate: <u>0.697</u>

UB: <u>3</u> LB0: <u>3</u> LB: **3** 

LBWithCut:  $\underline{\mathbf{3}}$  NodeCut:  $\underline{\mathbf{0}}$ 

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

GenNodeCnt: 1
PrimalNode: 0
ColumnCount: 3
TotalCutCount: 0
RootCutCount: 0
LPSolverCnt: 1
PricingSolverCnt: 0
Branch And Bound Nu

Branch And<br/>Bound Num:  $\underline{\mathbf{1}}$ 

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.141 s

[10x3]		8x 4x1	2 3x2	7x5	
8x9	[5x9]	3x9	7x10	7x7	
8x10	8x10		8x10	6x1 6x9	
[10x8]	10x8 9x8			8x8 3x8	

```
 \begin{array}{c} w = \! 10 \; , \; h = \! 8 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 80 \\ w = \! 8 \; , \; h = \! 10 \; , \; x = \! 0 \; , \; y = \! 8 \; , \; v = \! 80 \\ \end{array}
```

$$\mathbf{w}$$
 =8 , h =10 , x =8 , y =8 , v =80

$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 10 \ , \ y = 0 \ , \ v = 72 \\ w = 8 \ , \ h = 9 \ , \ x = 0 \ , \ y = 18 \ , \ v = 72 \end{array}$$

$$w = 7$$
,  $h = 10$ ,  $x = 16$ ,  $y = 18$ ,  $v = 70$ 

$$w = 8$$
,  $h = 8$ ,  $x = 19$ ,  $y = 0$ ,  $v = 64$ 

$$w = 6$$
,  $h = 9$ ,  $x = 24$ ,  $y = 8$ ,  $v = 54$ 

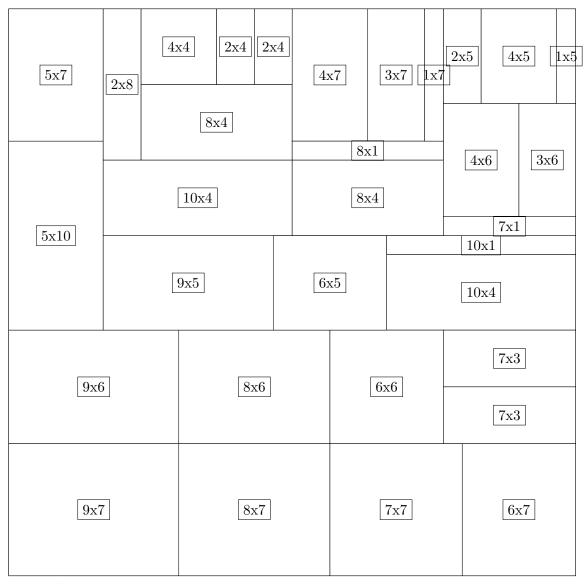
$$w$$
 =5 , h =9 , x =8 , y =18 , v =45

$$w = 7$$
,  $h = 5$ ,  $x = 23$ ,  $y = 25$ ,  $v = 35$ 

$$\le =10$$
 , h =3 , x =0 , y =27 , v =30

$$w = 8, h = 2, x = 12, y = 28, v = 16$$

 $\begin{array}{l} w = 6 \ , \ h = 1 \ , \ x = 24 \ , \ y = 17 \ , \ v = 6 \\ w = 3 \ , \ h = 2 \ , \ x = 20 \ , \ y = 28 \ , \ v = 6 \\ w = 4 \ , \ h = 1 \ , \ x = 12 \ , \ y = 27 \ , \ v = 4 \end{array}$ 



$$\mathbf{w}$$
 =9 , h =7 , x =0 , y =0 , v =63

$$\mathbf{w}$$
 =8 , h =7 , x =9 , y =0 , v =  
56

$$w = 9$$
,  $h = 6$ ,  $x = 0$ ,  $y = 7$ ,  $v = 54$ 

$$\mathbf{w}$$
 =5 , h =10 , x =0 , y =13 , v =50

$$\mathbf{w}$$
 =7 , h =7 , x =17 , y =0 , v =49

$$\mathbf{w}$$
 =8 , h =6 , x =9 , y =7 , v =48

$$w$$
 =9 , h =5 , x =5 , y =13 , v =45

$$\mathbf{w}$$
 =6 , h =7 , x =24 , y =0 , v =42

$$w$$
 =10 , h =4 , x =20 , y =13 , v =40

$$w$$
 =10 , h =4 , x =5 , y =18 , v =40

$$w = 6$$
,  $h = 6$ ,  $x = 17$ ,  $y = 7$ ,  $v = 36$ 

$$w = 5$$
,  $h = 7$ ,  $x = 0$ ,  $y = 23$ ,  $v = 35$ 

$$w = 8$$
,  $h = 4$ ,  $x = 15$ ,  $y = 18$ ,  $v = 32$   
 $w = 8$ ,  $h = 4$ ,  $x = 7$ ,  $y = 22$ ,  $v = 32$ 

$$w = 6$$
,  $h = 1$ ,  $x = 7$ ,  $y = 22$ ,  $v = 62$   
 $w = 6$ ,  $h = 5$ ,  $x = 14$ ,  $y = 13$ ,  $v = 30$ 

$$w = 4$$
,  $h = 7$ ,  $x = 15$ ,  $y = 23$ ,  $v = 28$ 

```
\mathbf{w} =4 , h =6 , x =23 , y =19 , v =24
```

$$\mathbf{w}$$
 =7 , h =3 , x =23 , y =7 , v =21

$$w = 7$$
,  $h = 3$ ,  $x = 23$ ,  $y = 10$ ,  $v = 21$ 

$$w = 3$$
,  $h = 7$ ,  $x = 19$ ,  $y = 23$ ,  $v = 21$ 

$$w = 2$$
,  $h = 5$ ,  $x = 23$ ,  $y = 25$ ,  $v = 10$ 

$$w = 3$$
,  $h = 6$ ,  $x = 27$ ,  $y = 19$ ,  $v = 18$ 

$$w = 4$$
,  $h = 4$ ,  $x = 7$ ,  $y = 26$ ,  $v = 16$ 

$$\mathbf{w}$$
 =2 , h =8 , x =5 , y =22 , v =16

$$w = 10$$
,  $h = 1$ ,  $x = 20$ ,  $y = 17$ ,  $v = 10$ 

$$w = 4$$
,  $h = 5$ ,  $x = 25$ ,  $y = 25$ ,  $v = 20$ 

$$w = 8$$
,  $h = 1$ ,  $x = 15$ ,  $y = 22$ ,  $v = 8$ 

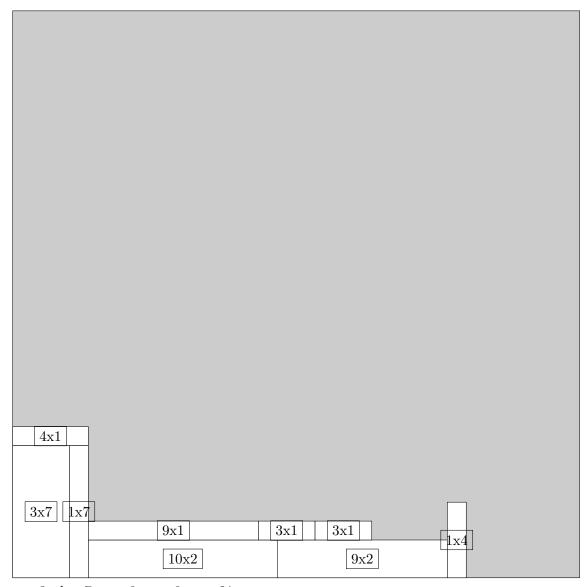
$$w=2$$
 ,  $h=4$  ,  $x=\!11$  ,  $y=\!26$  ,  $v=\!8$ 

$$w = 2$$
,  $h = 4$ ,  $x = 13$ ,  $y = 26$ ,  $v = 8$ 

$$w = 7$$
,  $h = 1$ ,  $x = 23$ ,  $y = 18$ ,  $v = 7$ 

$$\mathbf{w}$$
 =1 , h =7 , x =22 , y =23 , v =7

$$w=1$$
 ,  $h=\!5$  ,  $x=\!29$  ,  $y=\!25$  ,  $v=\!5$ 



$$\begin{array}{l} w=3\ ,\ h=7\ ,\ x=0\ ,\ y=0\ ,\ v=21\\ w=10\ ,\ h=2\ ,\ x=4\ ,\ y=0\ ,\ v=20\\ w=9\ ,\ h=2\ ,\ x=14\ ,\ y=0\ ,\ v=18\\ w=9\ ,\ h=1\ ,\ x=4\ ,\ y=2\ ,\ v=9\\ w=1\ ,\ h=7\ ,\ x=3\ ,\ y=0\ ,\ v=7\\ w=4\ ,\ h=1\ ,\ x=0\ ,\ y=7\ ,\ v=4\\ w=1\ ,\ h=4\ ,\ x=23\ ,\ y=0\ ,\ v=4\\ w=3\ ,\ h=1\ ,\ x=13\ ,\ y=2\ ,\ v=3\\ w=3\ ,\ h=1\ ,\ x=16\ ,\ y=2\ ,\ v=3 \end{array}$$