$ClassName: \ Class\_02.2bp\text{-}38$ 

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

TypeNum: <u>61</u> Num: <u>80</u> OutS: <u>3600</u> InS: <u>2787</u> Rate: <u>0.774</u>

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

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

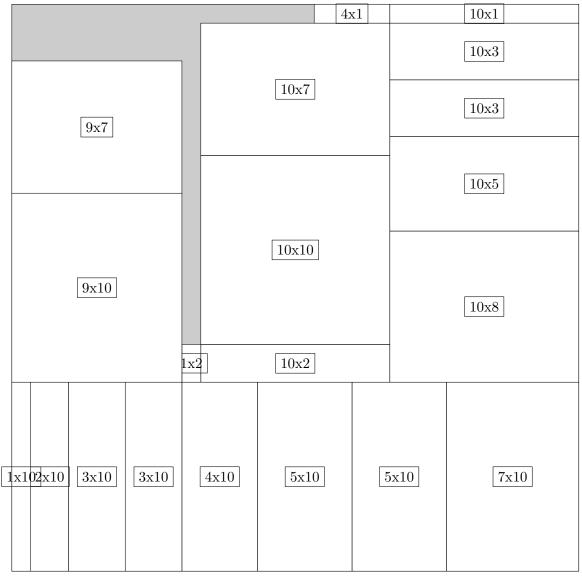
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

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

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.328 s



```
w = 7, h = 10, x = 23, y = 0, v = 70
```

$$w = 5$$
,  $h = 10$ ,  $x = 13$ ,  $y = 0$ ,  $v = 50$ 

$$w = 4$$
,  $h = 10$ ,  $x = 9$ ,  $y = 0$ ,  $v = 40$ 

$$w = 3$$
,  $h = 10$ ,  $x = 6$ ,  $y = 0$ ,  $v = 30$ 

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

$$w = 2$$
,  $h = 10$ ,  $x = 1$ ,  $y = 0$ ,  $v = 20$ 

$$w = 1$$
,  $h = 10$ ,  $x = 0$ ,  $y = 0$ ,  $v = 10$ 

$$w = 10$$
,  $h = 8$ ,  $x = 20$ ,  $y = 10$ ,  $v = 80$ 

$$w = 10$$
,  $h = 5$ ,  $x = 20$ ,  $y = 18$ ,  $v = 50$ 

$$w = 10$$
,  $h = 3$ ,  $x = 20$ ,  $y = 23$ ,  $v = 30$ 

$$w=\!10$$
 ,  $h=\!3$  ,  $x=\!20$  ,  $y=\!26$  ,  $v=\!30$ 

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

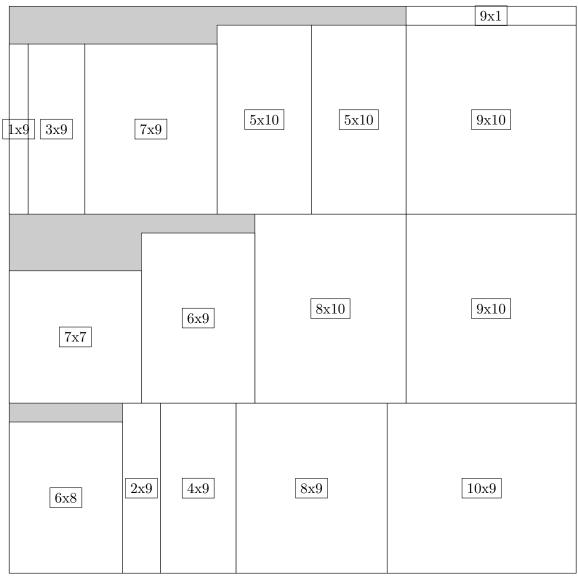
$$w = 1$$
,  $h = 2$ ,  $x = 9$ ,  $y = 10$ ,  $v = 2$ 

$$w=\!10$$
 ,  $h=\!10$  ,  $x=\!10$  ,  $y=\!12$  ,  $v=\!100$ 

$$w = 10$$
,  $h = 7$ ,  $x = 10$ ,  $y = 22$ ,  $v = 70$ 

w =5 , h =10 , x =18 , y =0 , v =50

 $\begin{array}{l} w=9\ ,\ h=\!10\ ,\ x=\!0\ ,\ y=\!10\ ,\ v=\!90\\ w=\!9\ ,\ h=\!7\ ,\ x=\!0\ ,\ y=\!20\ ,\ v=\!63\\ w=\!10\ ,\ h=\!1\ ,\ x=\!20\ ,\ y=\!29\ ,\ v=\!10\\ w=\!4\ ,\ h=\!1\ ,\ x=\!16\ ,\ y=\!29\ ,\ v=\!4 \end{array}$ 



$$w = 10$$
,  $h = 9$ ,  $x = 20$ ,  $y = 0$ ,  $v = 90$ 

$$w$$
 =8 , h =9 , x =12 , y =0 , v =72

$$w = 4$$
,  $h = 9$ ,  $x = 8$ ,  $y = 0$ ,  $v = 36$ 

$$\mathbf{w}$$
 =2 , h =9 , x =6 , y =0 , v =18

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

$$w=9$$
 ,  $h=\!10$  ,  $x=\!21$  ,  $y=\!9$  ,  $v=\!90$ 

$$w = 9$$
,  $h = 10$ ,  $x = 21$ ,  $y = 19$ ,  $v = 90$ 

$$w = 9$$
,  $h = 1$ ,  $x = 21$ ,  $y = 29$ ,  $v = 9$ 

$$w = 8$$
,  $h = 10$ ,  $x = 13$ ,  $y = 9$ ,  $v = 80$ 

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

$$w = 7$$
,  $h = 7$ ,  $x = 0$ ,  $y = 9$ ,  $v = 49$ 

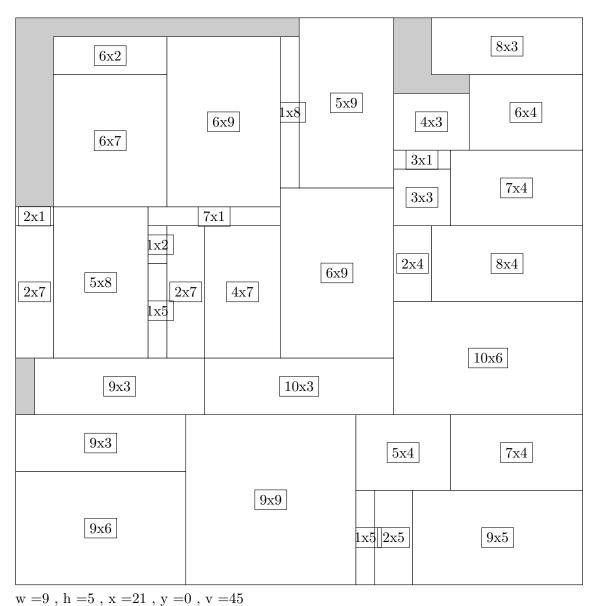
$$w$$
 =5 ,  $h$  =10 ,  $x$  =16 ,  $y$  =19 ,  $v$  =50

$$w = 5$$
,  $h = 10$ ,  $x = 11$ ,  $y = 19$ ,  $v = 50$ 

$$w = 7$$
,  $h = 9$ ,  $x = 4$ ,  $y = 19$ ,  $v = 63$ 

$$w = 3$$
,  $h = 9$ ,  $x = 1$ ,  $y = 19$ ,  $v = 27$ 

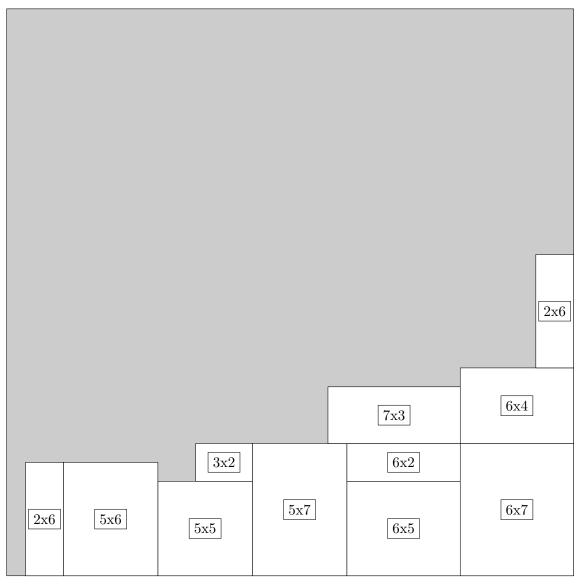
$$w = 1$$
,  $h = 9$ ,  $x = 0$ ,  $y = 19$ ,  $v = 9$ 



```
\begin{array}{l} w=2\;,\;h=5\;,\;x=19\;,\;y=0\;,\;v=10\\ w=1\;,\;h=5\;,\;x=18\;,\;y=0\;,\;v=5\\ w=7\;,\;h=4\;,\;x=23\;,\;y=5\;,\;v=28\\ w=5\;,\;h=4\;,\;x=18\;,\;y=5\;,\;v=20\\ w=9\;,\;h=9\;,\;x=9\;,\;y=0\;,\;v=81\\ w=9\;,\;h=6\;,\;x=0\;,\;y=0\;,\;v=54\\ w=9\;,\;h=3\;,\;x=0\;,\;y=6\;,\;v=27\\ w=10\;,\;h=6\;,\;x=20\;,\;y=9\;,\;v=60\\ w=8\;,\;h=4\;,\;x=22\;,\;y=15\;,\;v=32\\ w=2\;,\;h=4\;,\;x=22\;,\;y=15\;,\;v=8\\ w=7\;,\;h=4\;,\;x=23\;,\;y=19\;,\;v=28\\ w=3\;,\;h=3\;,\;x=20\;,\;y=19\;,\;v=9\\ w=3\;,\;h=1\;,\;x=20\;,\;y=22\;,\;v=3\\ w=6\;,\;h=4\;,\;x=24\;,\;y=23\;,\;v=24\\ w=4\;,\;h=3\;,\;x=20\;,\;y=23\;,\;v=12\\ \end{array}
```

```
w = 8, h = 3, x = 22, y = 27, v = 24
w = 10, h = 3, x = 10, y = 9, v = 30
w = 9, h = 3, x = 1, y = 9, v = 27
w = 6, h = 9, x = 14, y = 12, v = 54
w = 5, h = 9, x = 15, y = 21, v = 45
w = 1, h = 8, x = 14, y = 21, v = 8
w = 4, h = 7, x = 10, y = 12, v = 28
\mathbf{w} =2 , h =7 , x =8 , y =12 , v =14
w = 1, h = 5, x = 7, y = 12, v = 5
w = 1, h = 2, x = 7, y = 17, v = 2
\mathbf{w} =7 , \mathbf{h} =1 , \mathbf{x} =7 , \mathbf{y} =19 , \mathbf{v} =7
w = 5, h = 8, x = 2, y = 12, v = 40
w=2 , h=7 , x=0 , y=\!12 , v=\!14
w = 2, h = 1, x = 0, y = 19, v = 2
w = 6, h = 9, x = 8, y = 20, v = 54
w = 6, h = 7, x = 2, y = 20, v = 42
```

w = 6, h = 2, x = 2, y = 27, v = 12



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

$$\mathbf{w}$$
 =6 , h =5 , x =18 , y =0 , v =30

$$\mathbf{w}=\!6$$
 ,  $\mathbf{h}=\!2$  ,  $\mathbf{x}=\!18$  ,  $\mathbf{y}=\!5$  ,  $\mathbf{v}=\!12$ 

$$w = 5$$
,  $h = 7$ ,  $x = 13$ ,  $y = 0$ ,  $v = 35$ 

$$w = 5$$
,  $h = 5$ ,  $x = 8$ ,  $y = 0$ ,  $v = 25$ 

$$\mathbf{w}$$
 =3 , h =2 , x =10 , y =5 , v =6

$$w = 5$$
,  $h = 6$ ,  $x = 3$ ,  $y = 0$ ,  $v = 30$ 

$$\mathbf{w}$$
 =2 , h =6 , x =1 , y =0 , v =12

$$\mathbf{w}$$
 =6 , h =4 , x =24 , y =7 , v =24

$$\mathbf{w}$$
 =7 , h =3 , x =17 , y =7 , v =21

$$w = 2$$
,  $h = 6$ ,  $x = 28$ ,  $y = 11$ ,  $v = 12$