$ClassName: \ Class_02.2bp-44$

BinSize: 30×30 ReduceSize: 30×30

TypeNum: $\underline{64}$ Num: $\underline{100}$ OutS: $\underline{3600}$ InS: $\underline{3015}$ Rate: $\underline{0.838}$

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

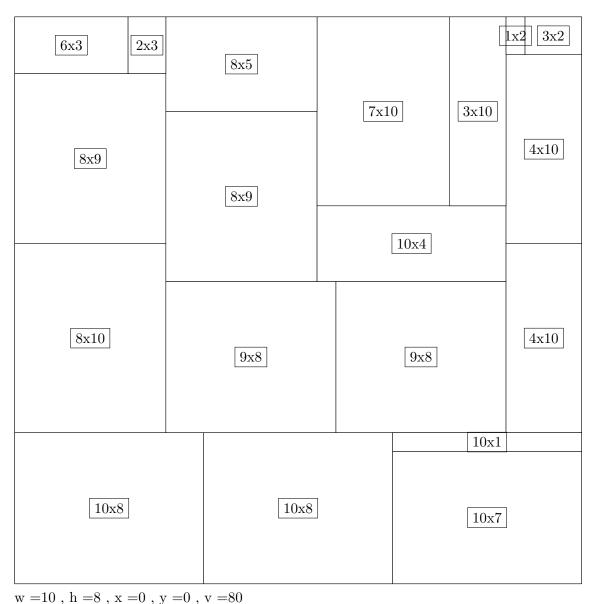
LBWithCut: $\underline{\mathbf{4}}$ NodeCut: $\underline{\mathbf{0}}$

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



```
w =10, h =0, x =0, y =0, v =80

w =10, h =8, x =10, y =0, v =80

w =8, h =10, x =0, y =8, v =80

w =9, h =8, x =8, y =8, v =72

w =9, h =8, x =17, y =8, v =72

w =8, h =9, x =0, y =18, v =72

w =8, h =9, x =8, y =16, v =72

w =10, h =7, x =20, y =0, v =70

w =7, h =10, x =16, y =20, v =70

w =10, h =4, x =16, y =16, v =40

w =6, h =3, x =0, y =27, v =18

w =8, h =5, x =8, y =25, v =40

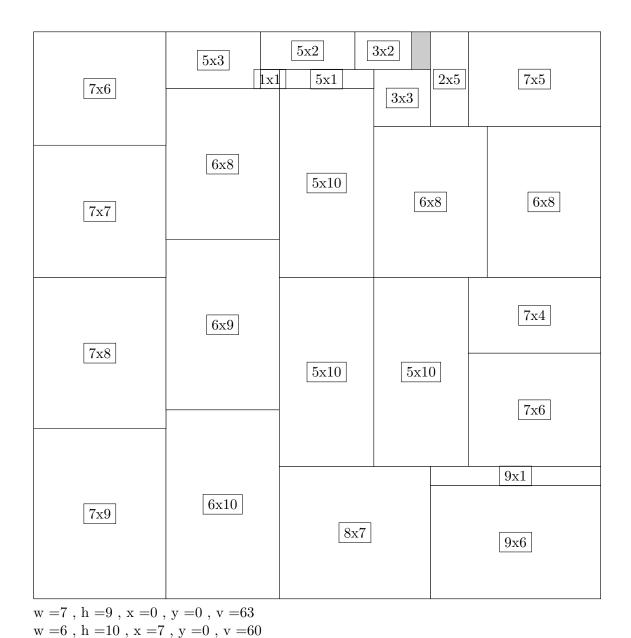
w =4, h =10, x =26, y =8, v =40

w =4, h =10, x =26, y =18, v =40

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

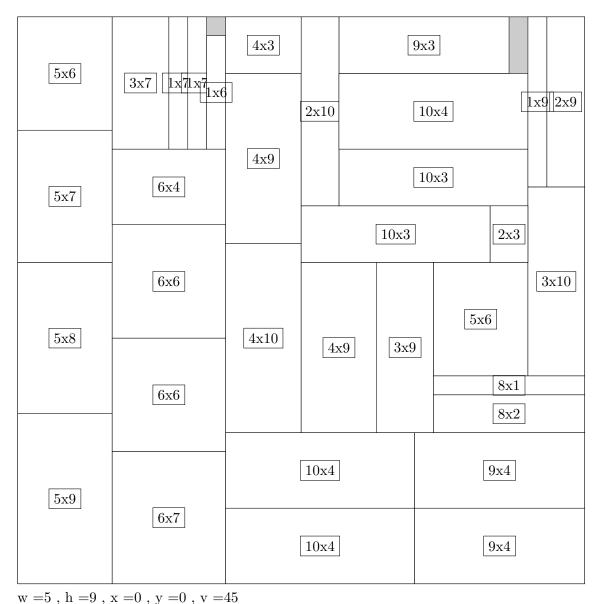
w =10, h =1, x =20, y =7, v =10
```

 $\begin{array}{l} w = 3 \ , \ h = 2 \ , \ x = 27 \ , \ y = 28 \ , \ v = 6 \\ w = 2 \ , \ h = 3 \ , \ x = 6 \ , \ y = 27 \ , \ v = 6 \\ w = 1 \ , \ h = 2 \ , \ x = 26 \ , \ y = 28 \ , \ v = 2 \end{array}$



$$\begin{array}{l} w=8\;,\;h=7\;,\;x=13\;,\;y=0\;,\;v=56\\ w=7\;,\;h=8\;,\;x=0\;,\;y=9\;,\;v=56\\ w=9\;,\;h=6\;,\;x=21\;,\;y=0\;,\;v=54\\ w=6\;,\;h=9\;,\;x=7\;,\;y=10\;,\;v=54\\ w=5\;,\;h=10\;,\;x=13\;,\;y=7\;,\;v=50\\ w=5\;,\;h=10\;,\;x=18\;,\;y=7\;,\;v=50\\ w=5\;,\;h=10\;,\;x=13\;,\;y=17\;,\;v=50\\ w=7\;,\;h=7\;,\;x=0\;,\;y=17\;,\;v=49\\ w=6\;,\;h=8\;,\;x=7\;,\;y=19\;,\;v=48\\ w=6\;,\;h=8\;,\;x=18\;,\;y=17\;,\;v=48\\ w=6\;,\;h=8\;,\;x=24\;,\;y=17\;,\;v=48\\ w=7\;,\;h=6\;,\;x=0\;,\;y=24\;,\;v=42\\ \end{array}$$

w = 7, h = 6, x = 23, y = 7, v = 42w = 7, h = 5, x = 23, y = 25, v = 35 $\begin{array}{l} w=7\ ,\ h=4\ ,\ x=23\ ,\ y=13\ ,\ v=28\\ w=5\ ,\ h=3\ ,\ x=7\ ,\ y=27\ ,\ v=15\\ w=5\ ,\ h=2\ ,\ x=12\ ,\ y=28\ ,\ v=10\\ w=2\ ,\ h=5\ ,\ x=21\ ,\ y=25\ ,\ v=10\\ w=9\ ,\ h=1\ ,\ x=21\ ,\ y=6\ ,\ v=9\\ w=3\ ,\ h=3\ ,\ x=18\ ,\ y=25\ ,\ v=9\\ w=3\ ,\ h=2\ ,\ x=17\ ,\ y=28\ ,\ v=6\\ w=5\ ,\ h=1\ ,\ x=13\ ,\ y=27\ ,\ v=5\\ w=1\ ,\ h=1\ ,\ x=12\ ,\ y=27\ ,\ v=1\\ \end{array}$



```
w = 6, h = 7, x = 5, y = 0, v = 42

w = 10, h = 4, x = 11, y = 0, v = 40

w = 10, h = 4, x = 11, y = 4, v = 40

w = 5, h = 8, x = 0, y = 9, v = 40

w = 4, h = 10, x = 11, y = 8, v = 40

w = 9, h = 4, x = 21, y = 0, v = 36

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

w = 6, h = 6, x = 5, y = 7, v = 36

w = 6, h = 6, x = 5, y = 13, v = 36

w = 4, h = 9, x = 11, y = 18, v = 36

w = 4, h = 9, x = 11, y = 18, v = 36

w = 4, h = 9, x = 15, y = 8, v = 36

w = 5, h = 7, x = 0, y = 17, v = 35

w = 10, h = 3, x = 15, y = 17, v = 30

w = 10, h = 3, x = 17, y = 20, v = 30

w = 5, h = 6, x = 0, y = 24, v = 30
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```
w =5, h =6, x =22, y =11, v =30
w =3, h =10, x =27, y =11, v =30
```

$$w = 9$$
, $h = 3$, $x = 17$, $y = 27$, $v = 27$

$$w = 3$$
, $h = 9$, $x = 19$, $y = 8$, $v = 27$

$$w = 6$$
, $h = 4$, $x = 5$, $y = 19$, $v = 24$

$$w = 3$$
, $h = 7$, $x = 5$, $y = 23$, $v = 21$

$$\mathbf{w}$$
 =2 , h =10 , x =15 , y =20 , v =20

$$w$$
 =10 , h =4 , x =17 , y =23 , v =40

$$w = 2$$
, $h = 9$, $x = 28$, $y = 21$, $v = 18$

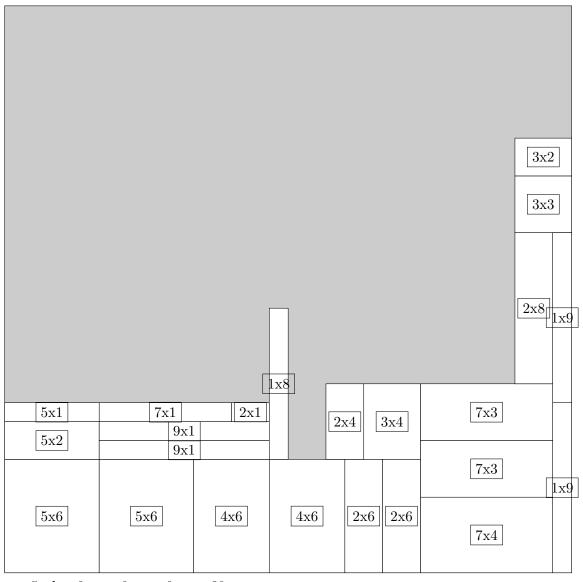
$$w=\!8$$
 , $h=\!2$, $x=\!22$, $y=\!8$, $v=\!16$

$$w = 4$$
, $h = 3$, $x = 11$, $y = 27$, $v = 12$

$$w$$
 =1 , h =9 , x =27 , y =21 , v =9

$$w = 2$$
, $h = 3$, $x = 25$, $y = 17$, $v = 6$

$$w = 1$$
, $h = 6$, $x = 10$, $y = 23$, $v = 6$



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

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

$$w = 7$$
, $h = 4$, $x = 22$, $y = 0$, $v = 28$

$$\mathbf{w}=\!\!4$$
 , $\mathbf{h}=\!\!6$, $\mathbf{x}=\!\!10$, $\mathbf{y}=\!\!0$, $\mathbf{v}=\!\!24$

$$\mathbf{w}$$
 =4 , h =6 , x =14 , y =0 , v =24

$$w = 7$$
, $h = 3$, $x = 22$, $y = 4$, $v = 21$

$$w = 7$$
, $h = 3$, $x = 22$, $y = 7$, $v = 21$

$$w = 2$$
, $h = 8$, $x = 27$, $y = 10$, $v = 16$

$$w = 3$$
, $h = 4$, $x = 19$, $y = 6$, $v = 12$

$$w = 2$$
, $h = 6$, $x = 18$, $y = 0$, $v = 12$

$$w = 2$$
, $h = 6$, $x = 20$, $y = 0$, $v = 12$

$$w = 5$$
, $h = 2$, $x = 0$, $y = 6$, $v = 10$

$$w = 9$$
, $h = 1$, $x = 5$, $y = 6$, $v = 9$

$$w = 9$$
, $h = 1$, $x = 5$, $y = 7$, $v = 9$

$$w = 3$$
, $h = 3$, $x = 27$, $y = 18$, $v = 9$

$$w = 1$$
, $h = 9$, $x = 29$, $y = 0$, $v = 9$

 $\begin{array}{l} w=1\ ,\ h=9\ ,\ x=29\ ,\ y=9\ ,\ v=9\\ w=2\ ,\ h=4\ ,\ x=17\ ,\ y=6\ ,\ v=8\\ w=1\ ,\ h=8\ ,\ x=14\ ,\ y=6\ ,\ v=8\\ w=7\ ,\ h=1\ ,\ x=5\ ,\ y=8\ ,\ v=7\\ w=3\ ,\ h=2\ ,\ x=27\ ,\ y=21\ ,\ v=6\\ w=5\ ,\ h=1\ ,\ x=0\ ,\ y=8\ ,\ v=5\\ w=2\ ,\ h=1\ ,\ x=12\ ,\ y=8\ ,\ v=2\\ \end{array}$