$ClassName: {\bf Class_02.2bp\text{-}31}$

BinSize: 30×30 ReduceSize: 30×30

TypeNum: <u>57</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2407</u> Rate: <u>0.891</u>

UB: **3** LB0: **3** LB: **3**

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

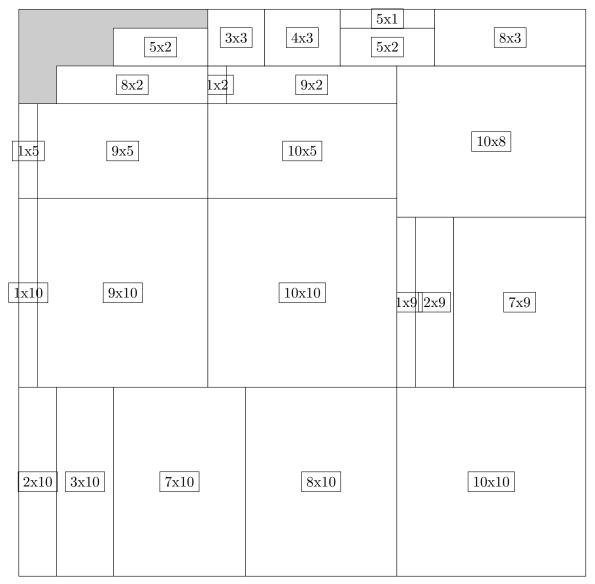
ExtendedNodeCnt: $\underline{\mathbf{1}}$

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{3}}$ 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: 0.078 sTotalTime: 600.360 s



```
w =10 , h =10 , x =20 , y =0 , v =100
```

$$w$$
 =7 , h =9 , x =23 , y =10 , v =63

$$w=2$$
 , $h=9$, $x=21$, $y=10$, $v=18$

$$w = 1$$
, $h = 9$, $x = 20$, $y = 10$, $v = 9$

$$\le =10$$
 , h =8 , x =20 , y =19 , v =80

$$w = 8$$
, $h = 10$, $x = 12$, $y = 0$, $v = 80$

$$w$$
 =7 , h =10 , x =5 , y =0 , v =70

$$\le =3$$
 , $\le =10$, $\ge =2$, y =0 , v =30

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

$$w$$
 =10 , h =10 , x =10 , y =10 , v =100

$$\le =10$$
 , h =5 , x =10 , y =20 , v =50

$$w$$
 =9 , h =2 , x =11 , y =25 , v =18

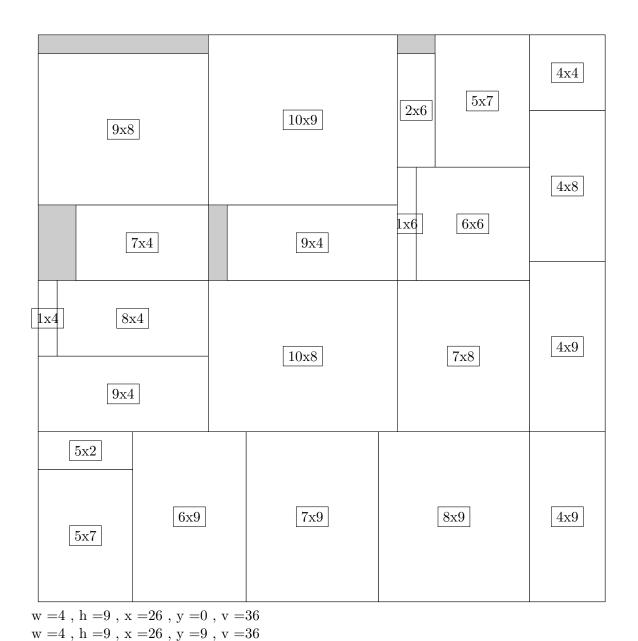
$$\mathbf{w}$$
 =1 , h =2 , x =10 , y =25 , v =2

$$w = 9$$
, $h = 10$, $x = 1$, $y = 10$, $v = 90$

$$\mathbf{w}$$
 =1 , h =10 , x =0 , y =10 , v =10

$$\le =9$$
 , h =5 , x =1 , y =20 , v =45

 $\begin{array}{l} w=1\ ,\ h=5\ ,\ x=0\ ,\ y=20\ ,\ v=5\\ w=8\ ,\ h=2\ ,\ x=2\ ,\ y=25\ ,\ v=16\\ w=8\ ,\ h=3\ ,\ x=22\ ,\ y=27\ ,\ v=24\\ w=5\ ,\ h=2\ ,\ x=17\ ,\ y=27\ ,\ v=10\\ w=5\ ,\ h=1\ ,\ x=17\ ,\ y=29\ ,\ v=5\\ w=4\ ,\ h=3\ ,\ x=13\ ,\ y=27\ ,\ v=12\\ w=3\ ,\ h=3\ ,\ x=10\ ,\ y=27\ ,\ v=9\\ w=5\ ,\ h=2\ ,\ x=5\ ,\ y=27\ ,\ v=10\\ \end{array}$

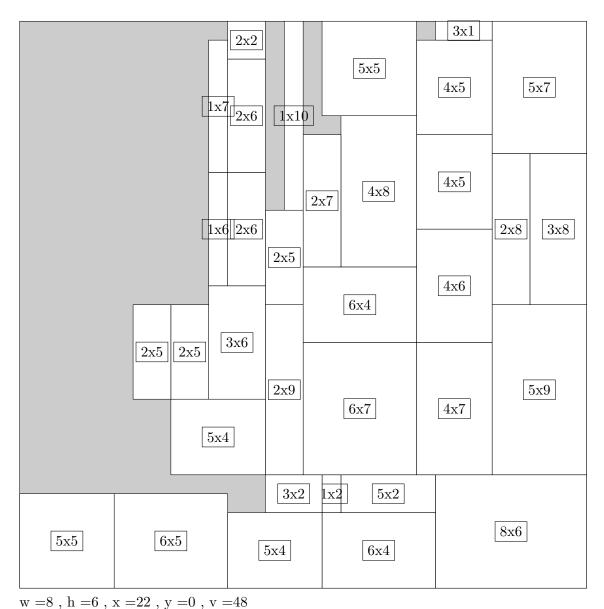


$$\begin{array}{l} w=4\ ,\ h=8\ ,\ x=26\ ,\ y=18\ ,\ v=32\\ w=4\ ,\ h=4\ ,\ x=26\ ,\ y=26\ ,\ v=16\\ w=8\ ,\ h=9\ ,\ x=18\ ,\ y=0\ ,\ v=72\\ w=7\ ,\ h=9\ ,\ x=11\ ,\ y=0\ ,\ v=63\\ w=6\ ,\ h=9\ ,\ x=5\ ,\ y=0\ ,\ v=54\\ w=5\ ,\ h=7\ ,\ x=0\ ,\ y=0\ ,\ v=35\\ w=5\ ,\ h=2\ ,\ x=0\ ,\ y=7\ ,\ v=10\\ w=7\ ,\ h=8\ ,\ x=19\ ,\ y=9\ ,\ v=56\\ w=6\ ,\ h=6\ ,\ x=20\ ,\ y=17\ ,\ v=36\\ w=1\ ,\ h=6\ ,\ x=19\ ,\ y=23\ ,\ v=35\\ \end{array}$$

$$w = 2$$
, $h = 6$, $x = 19$, $y = 23$, $v = 12$
 $w = 10$, $h = 8$, $x = 9$, $y = 9$, $v = 80$

$$w = 9, h = 4, x = 10, y = 17, v = 36$$

 $\begin{array}{l} w=9\ ,\, h=4\ ,\, x=0\ ,\, y=9\ ,\, v=36\\ w=8\ ,\, h=4\ ,\, x=1\ ,\, y=13\ ,\, v=32\\ w=1\ ,\, h=4\ ,\, x=0\ ,\, y=13\ ,\, v=4\\ w=7\ ,\, h=4\ ,\, x=2\ ,\, y=17\ ,\, v=28\\ w=10\ ,\, h=9\ ,\, x=9\ ,\, y=21\ ,\, v=90\\ w=9\ ,\, h=8\ ,\, x=0\ ,\, y=21\ ,\, v=72 \end{array}$



$$\begin{array}{l} w=6\;,\;h=4\;,\;x=16\;,\;y=0\;,\;v=24\\ w=5\;,\;h=2\;,\;x=17\;,\;y=4\;,\;v=10\\ w=1\;,\;h=2\;,\;x=16\;,\;y=4\;,\;v=2\\ w=5\;,\;h=4\;,\;x=11\;,\;y=0\;,\;v=20\\ w=3\;,\;h=2\;,\;x=13\;,\;y=4\;,\;v=6\\ w=6\;,\;h=5\;,\;x=5\;,\;y=0\;,\;v=30\\ w=5\;,\;h=5\;,\;x=0\;,\;y=0\;,\;v=25\\ w=5\;,\;h=9\;,\;x=25\;,\;y=6\;,\;v=45\\ w=3\;,\;h=8\;,\;x=27\;,\;y=15\;,\;v=24\\ w=2\;,\;h=8\;,\;x=27\;,\;y=15\;,\;v=16\\ w=5\;,\;h=7\;,\;x=25\;,\;y=23\;,\;v=35\\ w=4\;,\;h=7\;,\;x=21\;,\;y=6\;,\;v=28\\ w=4\;,\;h=6\;,\;x=21\;,\;y=13\;,\;v=24\\ w=4\;,\;h=5\;,\;x=21\;,\;y=19\;,\;v=20\\ w=4\;,\;h=5\;,\;x=21\;,\;y=24\;,\;v=20\\ \end{array}$$

```
w = 3, h = 1, x = 22, y = 29, v = 3
w = 6, h = 7, x = 15, y = 6, v = 42
w = 6, h = 4, x = 15, y = 13, v = 24
w = 4, h = 8, x = 17, y = 17, v = 32
w = 2, h = 7, x = 15, y = 17, v = 14
w = 5, h = 5, x = 16, y = 25, v = 25
w = 2, h = 9, x = 13, y = 6, v = 18
w =2 , h =5 , x =13 , y =15 , v =10
w = 1, h = 10, x = 14, y = 20, v = 10
w = 5, h = 4, x = 8, y = 6, v = 20
w = 3, h = 6, x = 10, y = 10, v = 18
w = 2, h = 6, x = 11, y = 16, v = 12
w = 1, h = 6, x = 10, y = 16, v = 6
w = 2, h = 6, x = 11, y = 22, v = 12
w = 2, h = 2, x = 11, y = 28, v = 4
w = 1, h = 7, x = 10, y = 22, v = 7
```

w = 2, h = 5, x = 8, y = 10, v = 10w = 2, h = 5, x = 6, y = 10, v = 10