$ClassName: \ Class_02.2bp-45$

BinSize: 30×30 ReduceSize: 30×30

TypeNum: <u>66</u> Num: <u>100</u> OutS: <u>3600</u> InS: <u>3378</u> Rate: <u>0.938</u>

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

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

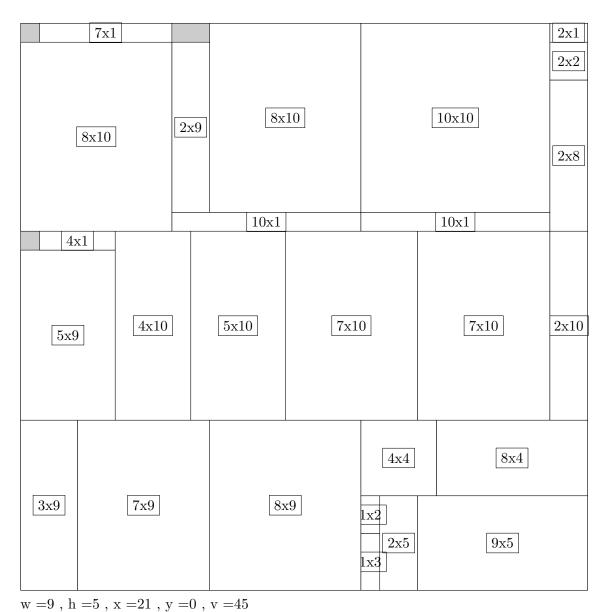
ExtendedNodeCnt: $\underline{\mathbf{1}}$

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: 0.062 sTotalTime: 600.328 s



$$\begin{array}{l} w=2\ ,\ h=5\ ,\ x=19\ ,\ y=0\ ,\ v=10\\ w=1\ ,\ h=3\ ,\ x=18\ ,\ y=0\ ,\ v=3\\ w=1\ ,\ h=2\ ,\ x=18\ ,\ y=3\ ,\ v=2\\ w=8\ ,\ h=2\ ,\ x=18\ ,\ y=5\ ,\ v=32\\ w=4\ ,\ h=4\ ,\ x=18\ ,\ y=5\ ,\ v=32\\ w=4\ ,\ h=4\ ,\ x=18\ ,\ y=5\ ,\ v=16\\ w=8\ ,\ h=9\ ,\ x=10\ ,\ y=0\ ,\ v=72\\ w=7\ ,\ h=9\ ,\ x=3\ ,\ y=0\ ,\ v=63\\ w=3\ ,\ h=9\ ,\ x=0\ ,\ y=0\ ,\ v=27\\ w=2\ ,\ h=10\ ,\ x=28\ ,\ y=19\ ,\ v=16\\ w=2\ ,\ h=8\ ,\ x=28\ ,\ y=27\ ,\ v=4\\ w=2\ ,\ h=1\ ,\ x=28\ ,\ y=29\ ,\ v=2\\ w=7\ ,\ h=10\ ,\ x=21\ ,\ y=9\ ,\ v=70\\ w=7\ ,\ h=10\ ,\ x=14\ ,\ y=9\ ,\ v=50\\ \end{array}$$

$$w=\!\!4$$
 , $h=\!\!10$, $x=\!\!5$, $y=\!\!9$, $v=\!\!40$

$$w = 5$$
, $h = 9$, $x = 0$, $y = 9$, $v = 45$

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

$$\le =10$$
 , h =1 , x =18 , y =19 , v =10

$$\mathbf{w}$$
 =10 , h =1 , x =8 , y =19 , v =10

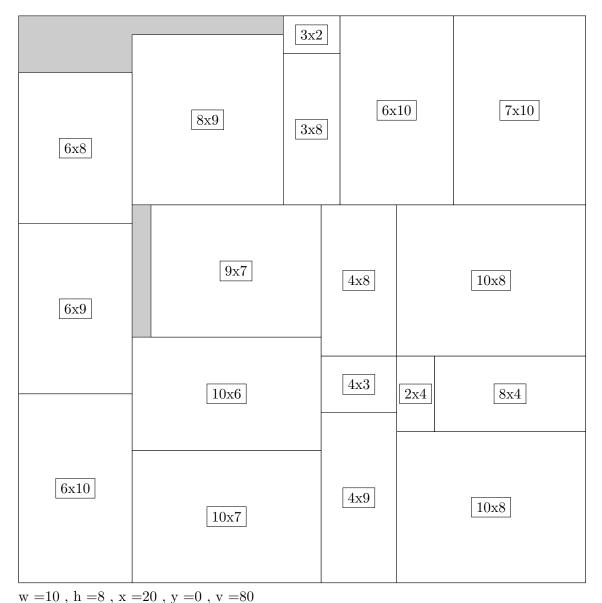
$$w = 10$$
, $h = 10$, $x = 18$, $y = 20$, $v = 100$

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

$$\mathbf{w}$$
 =2 , h =9 , x =8 , y =20 , v =18

$$w = 8$$
, $h = 10$, $x = 0$, $y = 19$, $v = 80$

$$\mathbf{w}$$
 =7 , \mathbf{h} =1 , \mathbf{x} =1 , \mathbf{y} =29 , \mathbf{v} =7



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\begin{array}{l} w=8\;,\;h=4\;,\;x=22\;,\;y=8\;,\;v=32\\ w=2\;,\;h=4\;,\;x=20\;,\;y=8\;,\;v=8\\ w=4\;,\;h=9\;,\;x=16\;,\;y=0\;,\;v=36\\ w=4\;,\;h=3\;,\;x=16\;,\;y=9\;,\;v=12\\ w=10\;,\;h=8\;,\;x=20\;,\;y=12\;,\;v=80\\ w=4\;,\;h=8\;,\;x=16\;,\;y=12\;,\;v=32\\ w=10\;,\;h=7\;,\;x=6\;,\;y=0\;,\;v=70\\ w=10\;,\;h=6\;,\;x=6\;,\;y=7\;,\;v=60\\ w=9\;,\;h=7\;,\;x=7\;,\;y=13\;,\;v=63\\ w=7\;,\;h=10\;,\;x=23\;,\;y=20\;,\;v=70\\ w=6\;,\;h=10\;,\;x=17\;,\;y=20\;,\;v=60\\ w=3\;,\;h=8\;,\;x=14\;,\;y=20\;,\;v=24\\ w=3\;,\;h=2\;,\;x=14\;,\;y=28\;,\;v=6\\ w=8\;,\;h=9\;,\;x=6\;,\;y=20\;,\;v=72\\ w=6\;,\;h=10\;,\;x=0\;,\;y=0\;,\;v=60\\ \end{array}
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 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 0 \ , \ y = 10 \ , \ v = 54 \\ w = 6 \ , \ h = 8 \ , \ x = 0 \ , \ y = 19 \ , \ v = 48 \end{array}$

3x7 8x8		9x8	10x8
8x6	4x6	8x6	9x6
9x3 9x6	3x9	9x3 9x6	9x8
7x3 7x4	7x1	7x7	9x8

$$w = 9$$
, $h = 8$, $x = 21$, $y = 0$, $v = 72$

$$w = 9$$
, $h = 6$, $x = 21$, $y = 16$, $v = 54$

$$w = 7$$
, $h = 7$, $x = 14$, $y = 0$, $v = 49$

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

$$\mathbf{w}$$
 =7 , \mathbf{h} =1 , \mathbf{x} =7 , \mathbf{y} =6 , \mathbf{v} =7

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

$$w = 7$$
, $h = 3$, $x = 0$, $y = 4$, $v = 21$

$$w = 9$$
, $h = 6$, $x = 12$, $y = 7$, $v = 54$

$$w = 9$$
, $h = 3$, $x = 12$, $y = 13$, $v = 27$

$$w = 3$$
, $h = 9$, $x = 9$, $y = 7$, $v = 27$

$$w = 8$$
, $h = 6$, $x = 13$, $y = 16$, $v = 48$

$$w = 4$$
, $h = 6$, $x = 9$, $y = 16$, $v = 24$

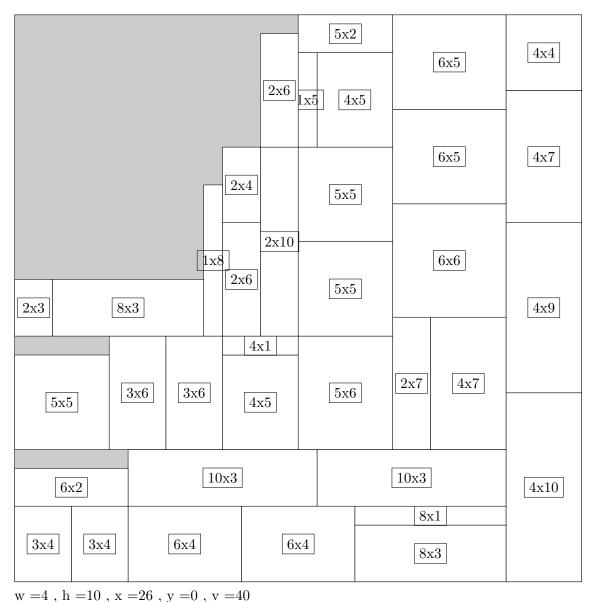
$$w = 9$$
, $h = 6$, $x = 0$, $y = 7$, $v = 54$

$$w = 9$$
, $h = 3$, $x = 0$, $y = 13$, $v = 27$

$$w=\!8$$
 , $h=\!6$, $x=\!1$, $y=\!16$, $v=\!48$

w=9 , $h=\!8$, $x=\!21$, $y=\!8$, $v=\!72$

 $\begin{array}{l} w = & 10 \ , \ h = & 8 \ , \ x = & 20 \ , \ y = & 22 \ , \ v = & 80 \\ w = & 9 \ , \ h = & 8 \ , \ x = & 11 \ , \ y = & 22 \ , \ v = & 72 \\ w = & 8 \ , \ h = & 8 \ , \ x = & 3 \ , \ y = & 22 \ , \ v = & 64 \\ w = & 3 \ , \ h = & 7 \ , \ x = & 0 \ , \ y = & 22 \ , \ v = & 21 \end{array}$



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w = 4 , h = 9 , x = 26 , y = 10 , v = 36

w = 4 , h = 7 , x = 26 , y = 19 , v = 28

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

w = 8 , h = 3 , x = 18 , y = 0 , v = 24

w = 8 , h = 1 , x = 18 , y = 3 , v = 8

w = 6 , h = 4 , x = 12 , y = 0 , v = 24

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

w = 3 , h = 4 , x = 3 , y = 0 , v = 12

w = 3 , h = 4 , x = 0 , y = 0 , v = 12

w = 10 , h = 3 , x = 16 , y = 4 , v = 30

w = 10 , h = 3 , x = 6 , y = 4 , v = 30

w = 6 , h = 2 , x = 0 , y = 4 , v = 12

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

w = 2 , h = 7 , x = 20 , y = 14 , v = 36
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w = 6, h = 5, x = 20, y = 20, v = 30
w = 6, h = 5, x = 20, y = 25, v = 30
w = 5, h = 6, x = 15, y = 7, v = 30
\mathbf{w} =4 , h =5 , x =11 , y =7 , v =20
w = 4, h = 1, x = 11, y = 12, v = 4
w = 3, h = 6, x = 8, y = 7, v = 18
w = 3, h = 6, x = 5, y = 7, v = 18
w =5 , h =5 , x =0 , y =7 , v =25
w = 5, h = 5, x = 15, y = 13, v = 25
w = 5, h = 5, x = 15, y = 18, v = 25
w = 4, h = 5, x = 16, y = 23, v = 20
w = 1, h = 5, x = 15, y = 23, v = 5
w = 5, h = 2, x = 15, y = 28, v = 10
w = 2, h = 10, x = 13, y = 13, v = 20
w = 2, h = 6, x = 13, y = 23, v = 12
w = 2, h = 6, x = 11, y = 13, v = 12
w = 2, h = 4, x = 11, y = 19, v = 8
w = 1, h = 8, x = 10, y = 13, v = 8
w = 8, h = 3, x = 2, y = 13, v = 24
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w = 2, h = 3, x = 0, y = 13, v = 6