$ClassName: \ Class_01.2bp-28$

 $\begin{array}{ll} \text{BinSize: } \underline{\mathbf{10} \times \mathbf{10}} \\ \text{ReduceSize: } \underline{\mathbf{10} \times \mathbf{10}} \end{array}$

TypeNum: <u>48</u> Num: <u>60</u> OutS: <u>1800</u> InS: <u>1737</u> Rate: <u>0.965</u> UB: <u>18</u> LB0: <u>18</u>

LBWithCut: $\underline{\mathbf{18}}$ NodeCut: $\underline{\mathbf{0}}$

LB: **18**

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{18}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.000 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.093 \ s} \\ {\rm TotalTime:} \ \underline{0.156 \ s} \end{array}$



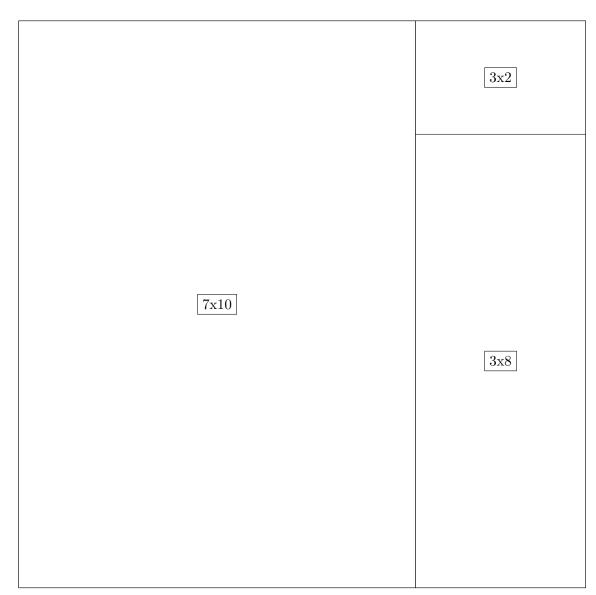
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100



 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100

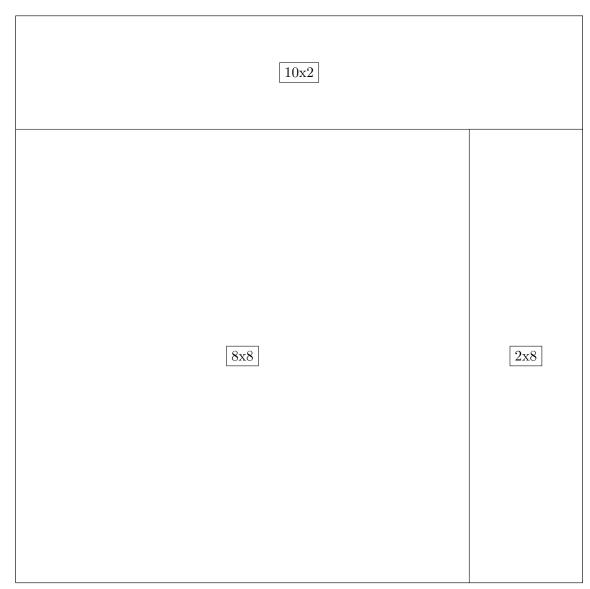






$$\mathbf{w}$$
 =7 , \mathbf{h} =10 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =70

$$w = 3$$
, $h = 2$, $x = 7$, $y = 8$, $v = 6$

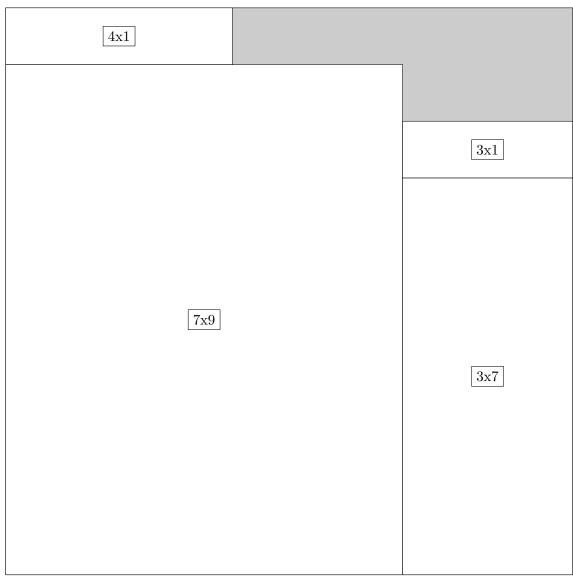


 $\begin{array}{l} w = 8 \;,\; h = 8 \;,\; x = 0 \;,\; y = 0 \;,\; v = 64 \\ w = 10 \;,\; h = 2 \;,\; x = 0 \;,\; y = 8 \;,\; v = 20 \\ w = 2 \;,\; h = 8 \;,\; x = 8 \;,\; y = 0 \;,\; v = 16 \end{array}$

9x1	
$\boxed{7\mathrm{x}9}$	3x9

$$\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 3 \ , \ h = 9 \ , \ x = 7 \ , \ y = 0 \ , \ v = 27 \end{array}$$

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



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

$$\mathbf{w}$$
 =3 , h =7 , x =7 , y =0 , v =
21

$$\mathbf{w}$$
 =4 , h =1 , x =0 , y =9 , v =4

$$\mathbf{w}$$
 =3 , h =1 , x =7 , y =7 , v =3

1x3		9x3	
	8:	x7	2x7

$$w = 8$$
, $h = 7$, $x = 0$, $y = 0$, $v = 56$

$$\mathbf{w}$$
 =9 , h =3 , x =1 , y =7 , v =27

$$\mathbf{w}$$
 =2 , h =7 , x =8 , y =0 , v =
14

$$\mathbf{w}$$
 =1 , h =3 , x =0 , y =7 , v =3

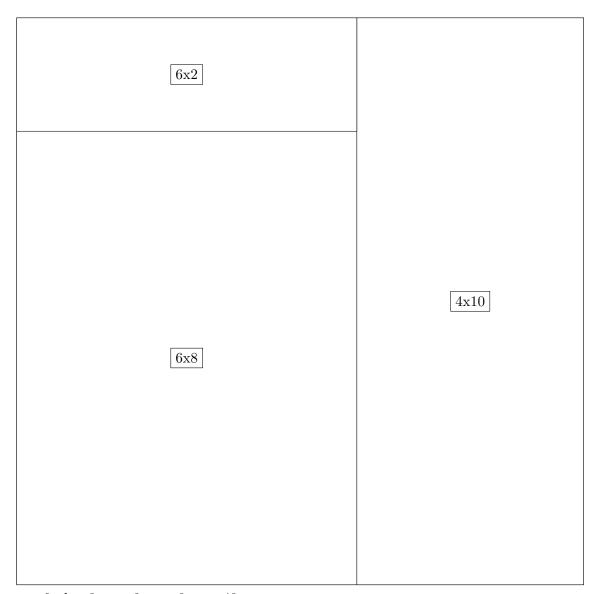
3x3		7x3
	7x7	3x7

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

$$\mathbf{w}$$
 =3 , h =7 , x =7 , y =0 , v =
21

$$\mathbf{w}$$
 =3 , h =3 , x =0 , y =7 , v =9

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



 $\begin{array}{l} w = 6 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 48 \\ w = 4 \ , \ h = 10 \ , \ x = 6 \ , \ y = 0 \ , \ v = 40 \\ w = 6 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 12 \end{array}$

		7x3	
6x	7	42	7

 $\begin{array}{l} w = 6 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 4 \ , \ h = 7 \ , \ x = 6 \ , \ y = 0 \ , \ v = 28 \end{array}$

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

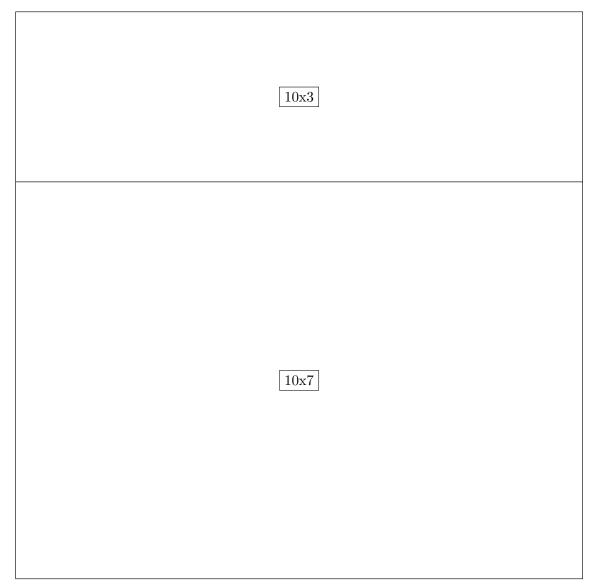
2x1	[4x3]	4x4
	6x7	4x6

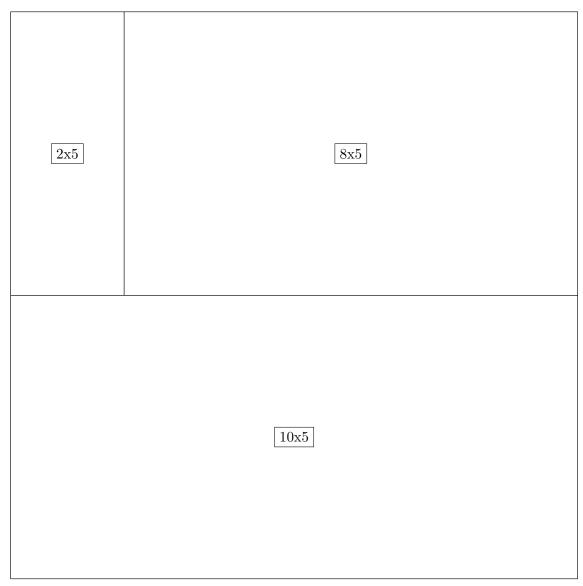
$$\begin{array}{l} w = 6 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 4 \ , \ h = 6 \ , \ x = 6 \ , \ y = 0 \ , \ v = 24 \end{array}$$

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

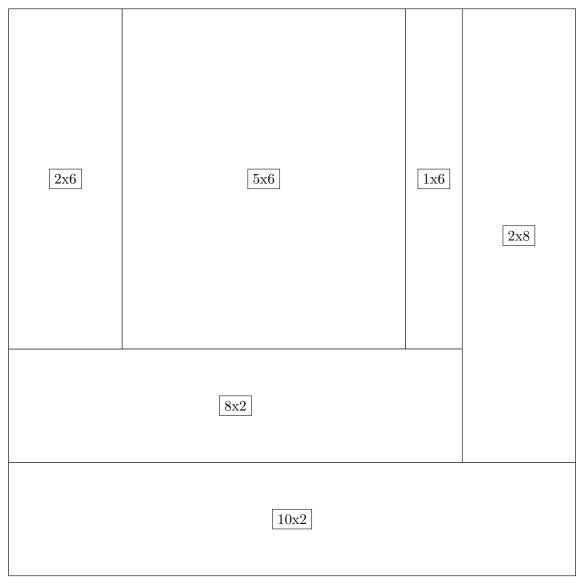
$$w = 4$$
, $h = 3$, $x = 2$, $y = 7$, $v = 12$

$$w = 2$$
, $h = 1$, $x = 0$, $y = 7$, $v = 2$





 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 8 \ , \ h = & 5 \ , \ x = & 2 \ , \ y = & 5 \ , \ v = & 40 \\ w = & 2 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 10 \end{array}$



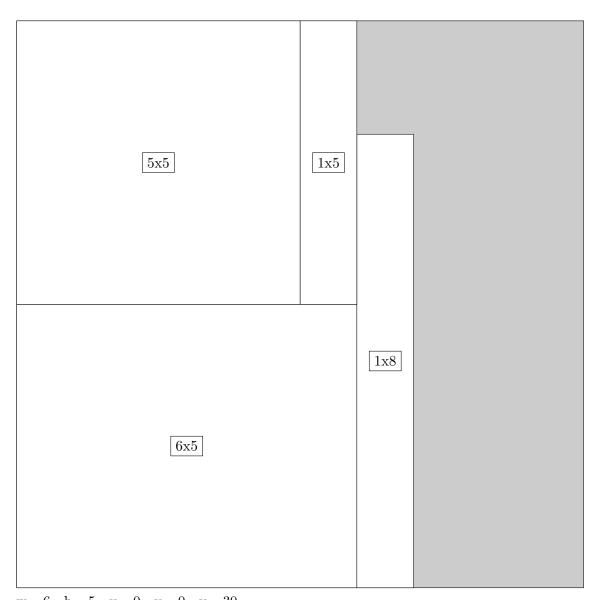
$$\begin{array}{l} w = 1 \ , \ h = 6 \ , \ x = 7 \ , \ y = 4 \ , \ v = 6 \\ w = 5 \ , \ h = 6 \ , \ x = 2 \ , \ y = 4 \ , \ v = 30 \end{array}$$

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

$$\le =8$$
 , h =2 , x =0 , y =2 , v =
16

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

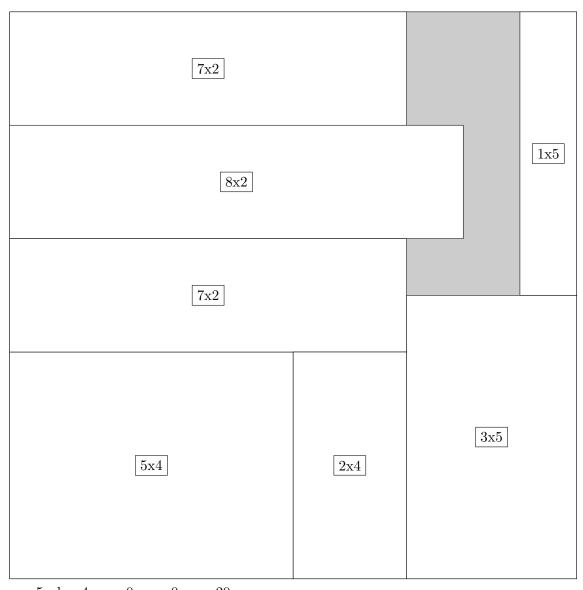
$$\mathbf{w}$$
 =2 , h =6 , x =0 , y =4 , v =12



 $\begin{array}{l} w = 6 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 5 \ , \ x = 0 \ , \ y = 5 \ , \ v = 25 \end{array}$

 \mathbf{w} =1 , h =8 , x =6 , y =0 , v =8

 \mathbf{w} =1 , h =5 , x =5 , y =5 , v =5



$$\begin{array}{l} w=5\ ,\ h=4\ ,\ x=0\ ,\ y=0\ ,\ v=20\\ w=8\ ,\ h=2\ ,\ x=0\ ,\ y=6\ ,\ v=16\\ w=3\ ,\ h=5\ ,\ x=7\ ,\ y=0\ ,\ v=15\\ w=7\ ,\ h=2\ ,\ x=0\ ,\ y=4\ ,\ v=14\\ w=7\ ,\ h=2\ ,\ x=0\ ,\ y=8\ ,\ v=14\\ w=2\ ,\ h=4\ ,\ x=5\ ,\ y=0\ ,\ v=8\\ w=1\ ,\ h=5\ ,\ x=9\ ,\ y=5\ ,\ v=5 \end{array}$$