${\bf ClassName:}\ {\bf Class\_10.2bp\text{-}38}$ 

BinSize:  $\underline{100 \times 100}$ ReduceSize:  $\underline{100 \times 100}$ 

TypeNum: <u>79</u> Num: <u>80</u> OutS: <u>130000</u> InS: <u>115794</u> Rate: <u>0.891</u> UB: <u>13</u> LB0: <u>12</u> LB: <u>13</u>

LBWithCut: **13** NodeCut: **0** 

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

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{57}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{45}}$ PricingSolverCnt:  $\underline{\mathbf{45}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt:  $\underline{\mathbf{false}}$ 

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

TimeOnPrimal: <u>0.000 s</u>
TimeOnPricing: <u>2999.636 s</u>

TimeOnRmp:  $\underline{0.113 \text{ s}}$ TotalTime: 3600.001 s

23x16	22x21	22x22	33x22
13x4 17x46			
$100 \mathrm{x} 27$			

$$w = 100$$
,  $h = 27$ ,  $x = 0$ ,  $y = 0$ ,  $v = 2700$ 

$$w$$
 =81 , h =50 , x =19 , y =27 , v =4050

$$\le =17$$
 , h =46 , x =2 , y =27 , v =782

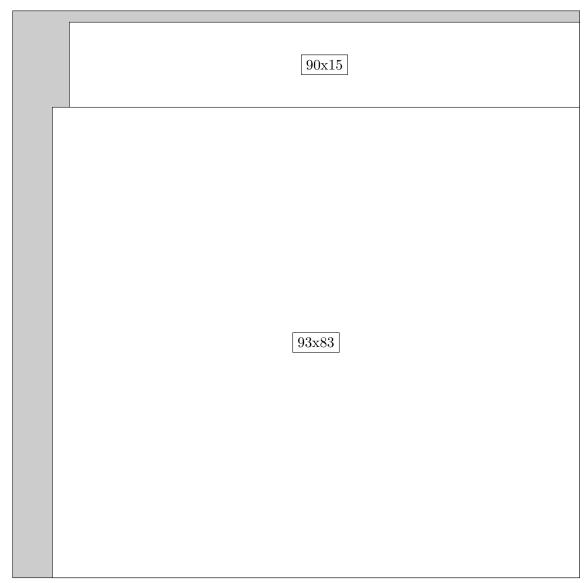
$$\le =13$$
 ,  $h$  =4 ,  $x$  =6 ,  $y$  =73 ,  $v$  =52

$$\le =33$$
 , h =22 , x =67 , y =77 , v =726

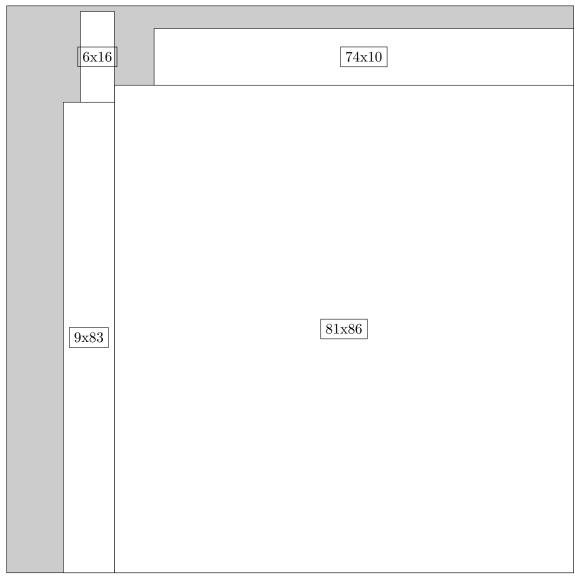
$$w$$
 =22 , h =22 , x =45 , y =77 , v =484

$$w=\!22$$
 ,  $h=\!21$  ,  $x=\!23$  ,  $y=\!77$  ,  $v=\!462$ 

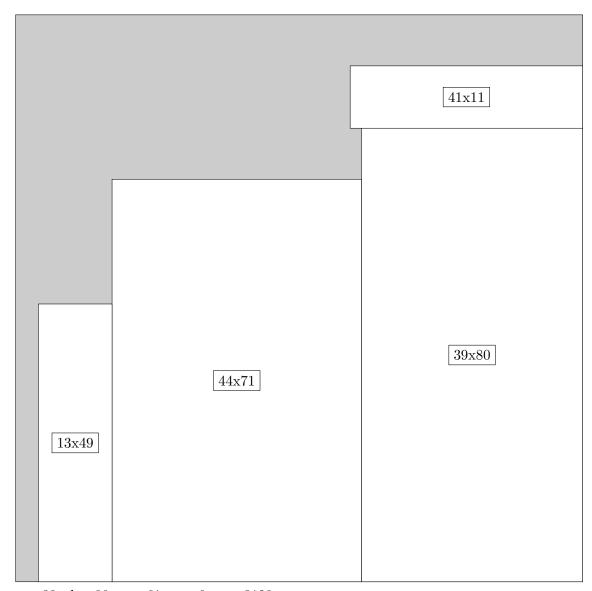
$$\le =23$$
 , h =16 , x =0 , y =77 , v =368



$$\begin{array}{l} w = \! 93 \; , \; h = \! 83 \; , \; x = \! 7 \; , \; y = \! 0 \; , \; v = \! 7719 \\ w = \! 90 \; , \; h = \! 15 \; , \; x = \! 10 \; , \; y = \! 83 \; , \; v = \! 1350 \end{array}$$



$$\begin{array}{l} w = \! 81 \ , \ h = \! 86 \ , \ x = \! 19 \ , \ y = \! 0 \ , \ v = \! 6966 \\ w = \! 74 \ , \ h = \! 10 \ , \ x = \! 26 \ , \ y = \! 86 \ , \ v = \! 740 \\ w = \! 9 \ , \ h = \! 83 \ , \ x = \! 10 \ , \ y = \! 0 \ , \ v = \! 747 \\ w = \! 6 \ , \ h = \! 16 \ , \ x = \! 13 \ , \ y = \! 83 \ , \ v = \! 96 \end{array}$$

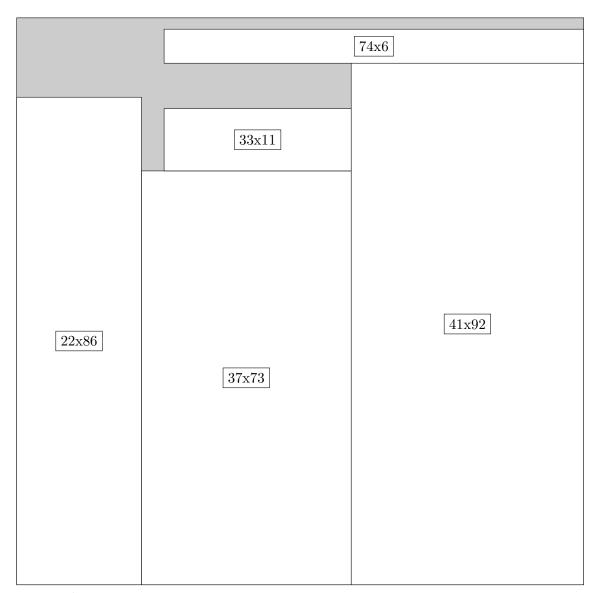


$$\le =39$$
 , h =80 , x =61 , y =0 , v =3120

$$\mathbf{w}$$
 =44 , h =71 , x =17 , y =0 , v =3124

$$\le =13$$
 , h =49 , x =4 , y =0 , v =637

$$\mathbf{w}$$
 =41 , h =11 , x =59 , y =80 , v =451



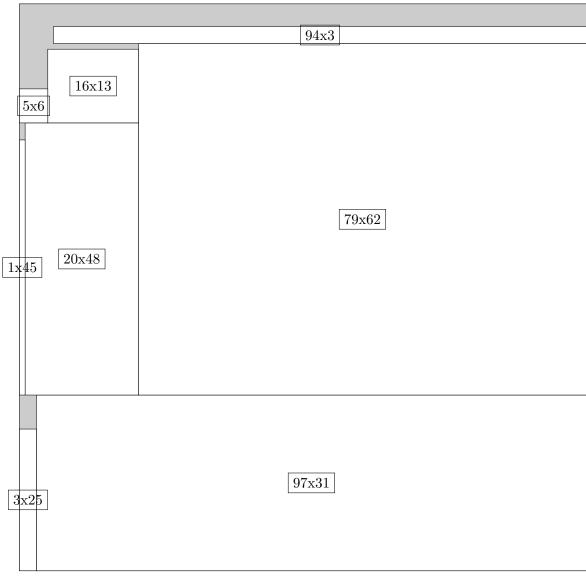
$$\le =41$$
 , h =92 , x =59 , y =0 , v =3772

$$\le =37$$
 ,  $h$  =73 ,  $x$  =22 ,  $y$  =0 ,  $v$  =2701

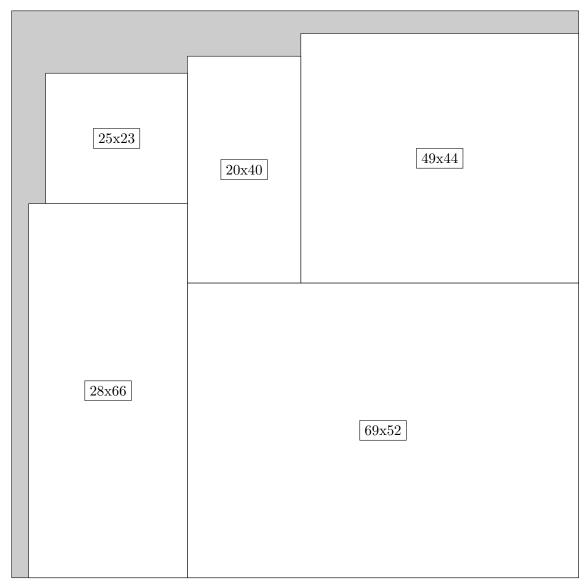
$$\le =33$$
 , h =11 , x =26 , y =73 , v =363

$$\mathbf{w}$$
 =74 , h =6 , x =26 , y =92 , v =444

$$w = 22$$
,  $h = 86$ ,  $x = 0$ ,  $y = 0$ ,  $v = 1892$ 



$$\begin{array}{l} w=97\;,\; h=31\;,\; x=3\;,\; y=0\;,\; v=3007\\ w=3\;,\; h=25\;,\; x=0\;,\; y=0\;,\; v=75\\ w=79\;,\; h=62\;,\; x=21\;,\; y=31\;,\; v=4898\\ w=20\;,\; h=48\;,\; x=1\;,\; y=31\;,\; v=960\\ w=1\;,\; h=45\;,\; x=0\;,\; y=31\;,\; v=45\\ w=16\;,\; h=13\;,\; x=5\;,\; y=79\;,\; v=208\\ w=5\;,\; h=6\;,\; x=0\;,\; y=79\;,\; v=30\\ w=94\;,\; h=3\;,\; x=6\;,\; y=93\;,\; v=282 \end{array}$$



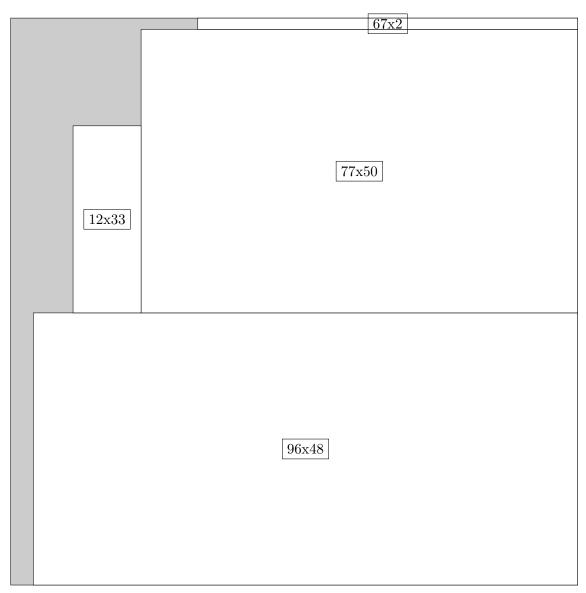
$$w = 69$$
,  $h = 52$ ,  $x = 31$ ,  $y = 0$ ,  $v = 3588$ 

$$w = 49$$
,  $h = 44$ ,  $x = 51$ ,  $y = 52$ ,  $v = 2156$ 

$$\le =20$$
 , h =40 , x =31 , y =52 , v =800

$$\le =28$$
 ,  $h$  =66 ,  $x$  =3 ,  $y$  =0 ,  $v$  =1848

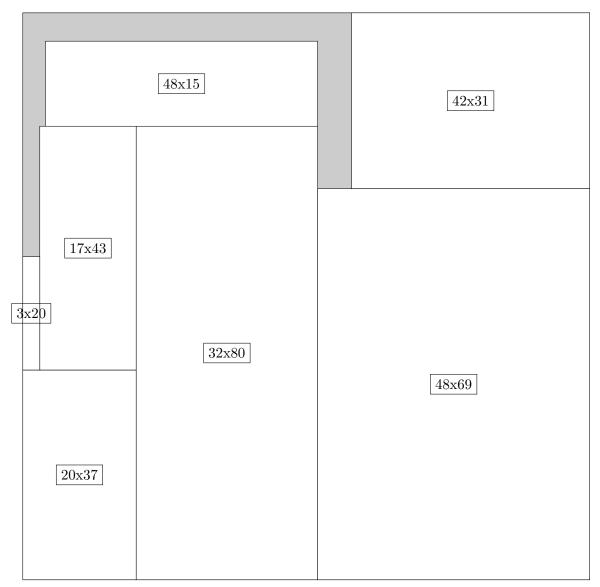
$$\le =25$$
 , h =23 , x =6 , y =66 , v =575



$$\begin{array}{l} w = \! 96 \ , \ h = \! 48 \ , \ x = \! 4 \ , \ y = \! 0 \ , \ v = \! 4608 \\ w = \! 77 \ , \ h = \! 50 \ , \ x = \! 23 \ , \ y = \! 48 \ , \ v = \! 3850 \end{array}$$

$$\mathbf{w}$$
 =67 , h =2 , x =33 , y =98 , v =134

$$w = 12$$
,  $h = 33$ ,  $x = 11$ ,  $y = 48$ ,  $v = 396$ 



$$w = 48$$
,  $h = 69$ ,  $x = 52$ ,  $y = 0$ ,  $v = 3312$ 

$$\le =42$$
 , h =31 , x =58 , y =69 , v =1302

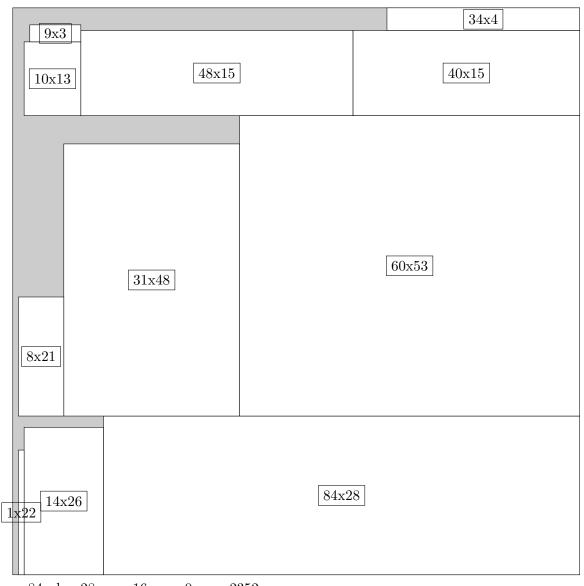
$$\le =32$$
 ,  $h$  =80 ,  $x$  =20 ,  $y$  =0 ,  $v$  =2560

$$\le =20$$
 , h =37 , x =0 , y =0 , v =740

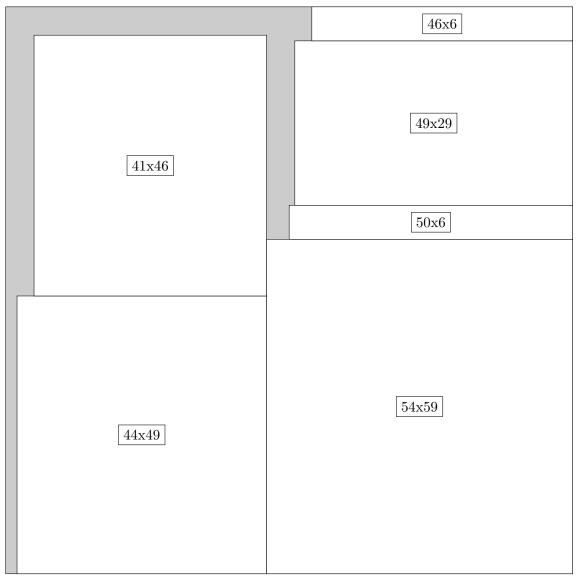
$$w$$
 =17 , h =43 , x =3 , y =37 , v =731

$$\mathbf{w}$$
 =3 , h =20 , x =0 , y =37 , v =60

$$\le =48$$
 ,  $h=15$  ,  $x=4$  ,  $y=80$  ,  $v=720$ 



$$\begin{array}{l} w = 84 \;, \; h = 28 \;, \; x = 16 \;, \; y = 0 \;, \; v = 2352 \\ w = 14 \;, \; h = 26 \;, \; x = 2 \;, \; y = 0 \;, \; v = 364 \\ w = 1 \;, \; h = 22 \;, \; x = 1 \;, \; y = 0 \;, \; v = 22 \\ w = 60 \;, \; h = 53 \;, \; x = 40 \;, \; y = 28 \;, \; v = 3180 \\ w = 31 \;, \; h = 48 \;, \; x = 9 \;, \; y = 28 \;, \; v = 1488 \\ w = 8 \;, \; h = 21 \;, \; x = 1 \;, \; y = 28 \;, \; v = 168 \\ w = 40 \;, \; h = 15 \;, \; x = 60 \;, \; y = 81 \;, \; v = 600 \\ w = 34 \;, \; h = 4 \;, \; x = 66 \;, \; y = 96 \;, \; v = 136 \\ w = 48 \;, \; h = 15 \;, \; x = 12 \;, \; y = 81 \;, \; v = 720 \\ w = 10 \;, \; h = 13 \;, \; x = 2 \;, \; y = 81 \;, \; v = 130 \\ w = 9 \;, \; h = 3 \;, \; x = 3 \;, \; y = 94 \;, \; v = 27 \\ \end{array}$$



$$w = 54$$
 ,  $h = 59$  ,  $x = 46$  ,  $y = 0$  ,  $v = 3186$ 

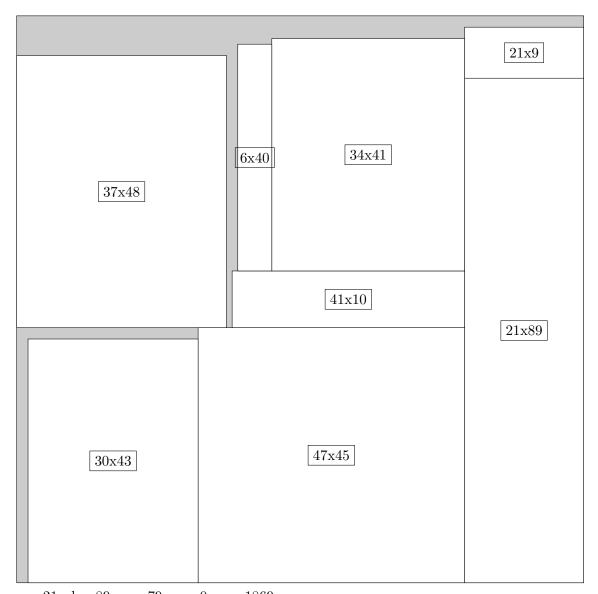
$$w=\!50$$
 ,  $h=\!6$  ,  $x=\!50$  ,  $y=\!59$  ,  $v=\!300$ 

$$\le =49$$
 , h =29 , x =51 , y =65 , v =1421

$$\le =46$$
 ,  $h=6$  ,  $x=54$  ,  $y=94$  ,  $v=276$ 

$$\mathbf{w}$$
 =44 , h =49 , x =2 , y =0 , v =2156

$$\mathbf{w}$$
 =41 , h =46 , x =5 , y =49 , v =1886



$$\le =21$$
 ,  $h=89$  ,  $x=79$  ,  $y=0$  ,  $v=1869$ 

$$w = 21$$
,  $h = 9$ ,  $x = 79$ ,  $y = 89$ ,  $v = 189$ 

$$w = 47$$
,  $h = 45$ ,  $x = 32$ ,  $y = 0$ ,  $v = 2115$ 

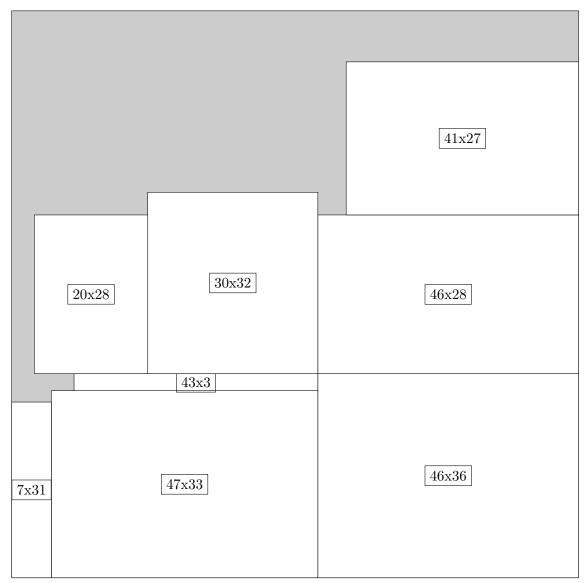
$$\le =30$$
 , h =43 , x =2 , y =0 , v =1290

$$w$$
 =41 ,  $h$  =10 ,  $x$  =38 ,  $y$  =45 ,  $v$  =410

$$w=\!34$$
 ,  $h=\!41$  ,  $x=\!45$  ,  $y=\!55$  ,  $v=\!1394$ 

$$w$$
 =6 , h =40 , x =39 , y =55 , v =240

$$\le =37$$
 , h =48 , x =0 , y =45 , v =1776



$$w = 46$$
,  $h = 36$ ,  $x = 54$ ,  $y = 0$ ,  $v = 1656$ 

$$\le =47$$
 ,  $h=33$  ,  $x=7$  ,  $y=0$  ,  $v=1551$ 

$$\le =43$$
 , h =3 , x =11 , y =33 , v =129

$$w = 7$$
,  $h = 31$ ,  $x = 0$ ,  $y = 0$ ,  $v = 217$ 

$$\le =46$$
 , h =28 , x =  
54 , y =36 , v =1288

$$\le =41$$
 ,  $h=27$  ,  $x=59$  ,  $y=64$  ,  $v=1107$ 

$$w = 30$$
,  $h = 32$ ,  $x = 24$ ,  $y = 36$ ,  $v = 960$ 

$$\le =20$$
 , h =28 , x =4 , y =36 , v =560