${\bf ClassName:}~{\bf Class_05.2bp\text{-}33}$

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

TypeNum: <u>80</u> Num: <u>80</u> OutS: <u>250000</u> InS: <u>204488</u> Rate: <u>0.818</u> UB: <u>25</u> LB0: <u>25</u>

LBWithCut: $\underline{25}$ NodeCut: $\underline{0}$

LB: **25**

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

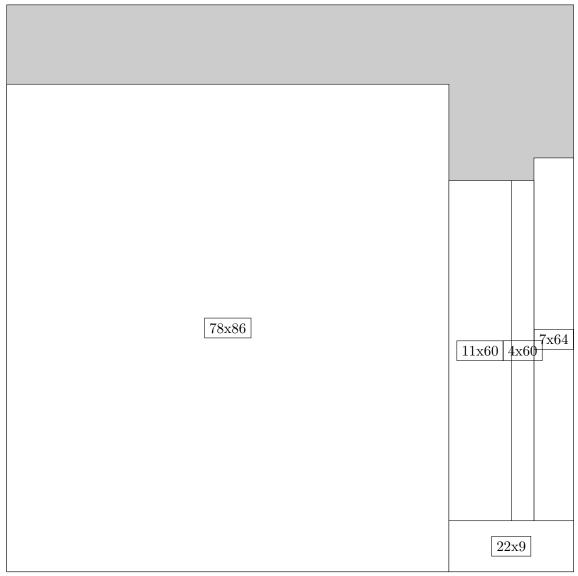
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{25}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

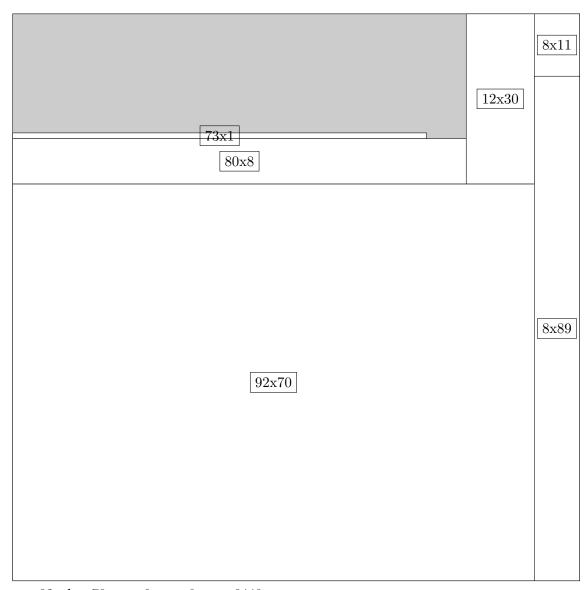
 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.020 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.072 \ s} \\ {\rm TotalTime:} \ \underline{0.153 \ s} \end{array}$

20x8	$80 \mathrm{x} 23$
	$\boxed{100\text{x}77}$

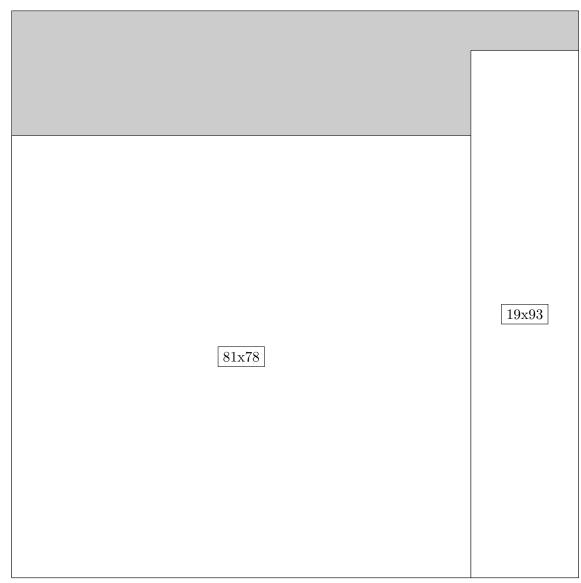
$$\begin{array}{l} w = \! 100 \; , \; h = \! 77 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 7700 \\ w = \! 80 \; , \; h = \! 23 \; , \; x = \! 20 \; , \; y = \! 77 \; , \; v = \! 1840 \\ w = \! 20 \; , \; h = \! 8 \; , \; x = \! 0 \; , \; y = \! 77 \; , \; v = \! 160 \end{array}$$

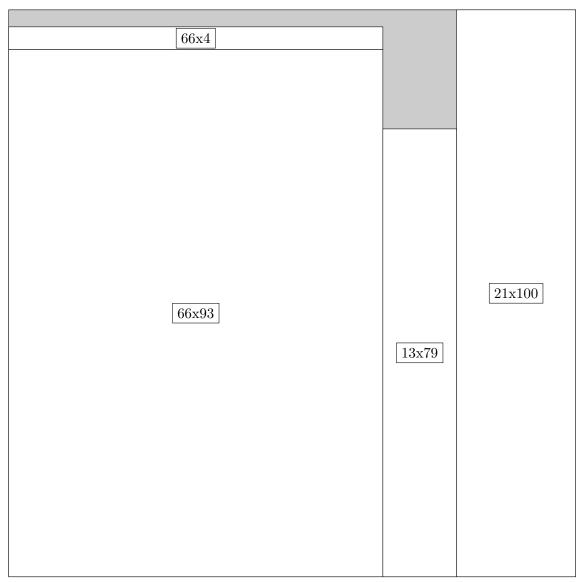


$$\begin{array}{l} w = \!\!\! 78 \ , \ h = \!\!\! 86 \ , \ x = \!\!\! 0 \ , \ y = \!\!\! 0 \ , \ v = \!\!\! 6708 \\ w = \!\!\! 11 \ , \ h = \!\!\! 60 \ , \ x = \!\!\! 78 \ , \ y = \!\!\! 9 \ , \ v = \!\!\! 660 \\ w = \!\!\! 7 \ , \ h = \!\!\! 64 \ , \ x = \!\!\! 93 \ , \ y = \!\!\! 9 \ , \ v = \!\!\! 448 \\ w = \!\!\! 4 \ , \ h = \!\!\! 60 \ , \ x = \!\!\! 89 \ , \ y = \!\!\! 9 \ , \ v = \!\!\! 240 \\ w = \!\!\!\! 22 \ , \ h = \!\!\!\! 9 \ , \ x = \!\!\!\! 78 \ , \ y = \!\!\!\! 0 \ , \ v = \!\!\!\! 198 \end{array}$$



$$\begin{array}{l} w = 92 \; , \; h = 70 \; , \; x = 0 \; , \; y = 0 \; , \; v = 6440 \\ w = 8 \; , \; h = 89 \; , \; x = 92 \; , \; y = 0 \; , \; v = 712 \\ w = 80 \; , \; h = 8 \; , \; x = 0 \; , \; y = 70 \; , \; v = 640 \\ w = 12 \; , \; h = 30 \; , \; x = 80 \; , \; y = 70 \; , \; v = 360 \\ w = 8 \; , \; h = 11 \; , \; x = 92 \; , \; y = 89 \; , \; v = 88 \\ w = 73 \; , \; h = 1 \; , \; x = 0 \; , \; y = 78 \; , \; v = 73 \end{array}$$



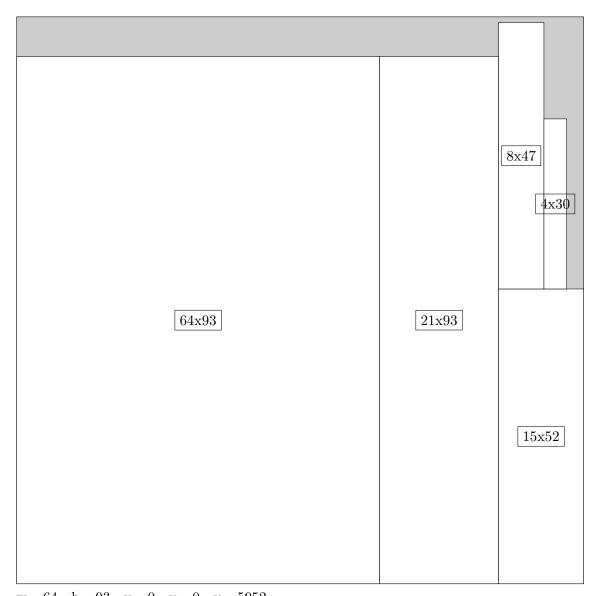


$$\le =66$$
 , $h=93$, $x=0$, $y=0$, $v=6138$

$$\le =21$$
 , $h=100$, $x=79$, $y=0$, $v=2100$

$$\le =13$$
 , $h=79$, $x=66$, $y=0$, $v=1027$

$$\mathbf{w}$$
 =66 , h =4 , x =0 , y =93 , v =264

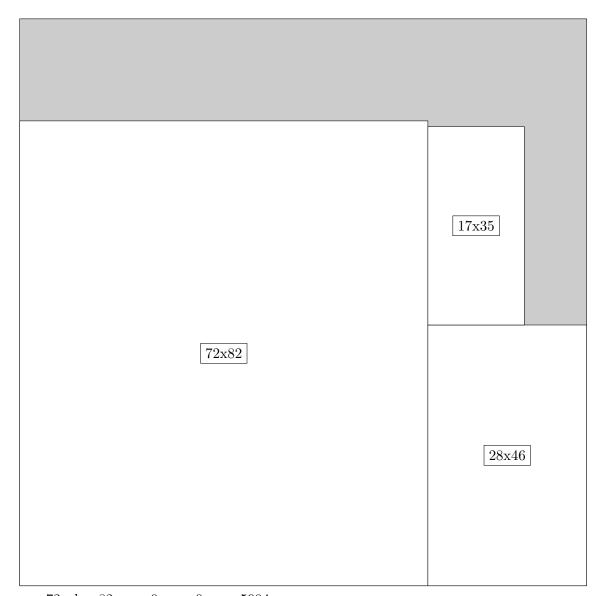


 $\begin{array}{l} w = \!\!64 \; , \; h = \!\!93 \; , \; x = \!\!0 \; , \; y = \!\!0 \; , \; v = \!\!5952 \\ w = \!\!21 \; , \; h = \!\!93 \; , \; x = \!\!64 \; , \; y = \!\!0 \; , \; v = \!\!1953 \\ \end{array}$

w = 15, h = 52, x = 85, y = 0, v = 780

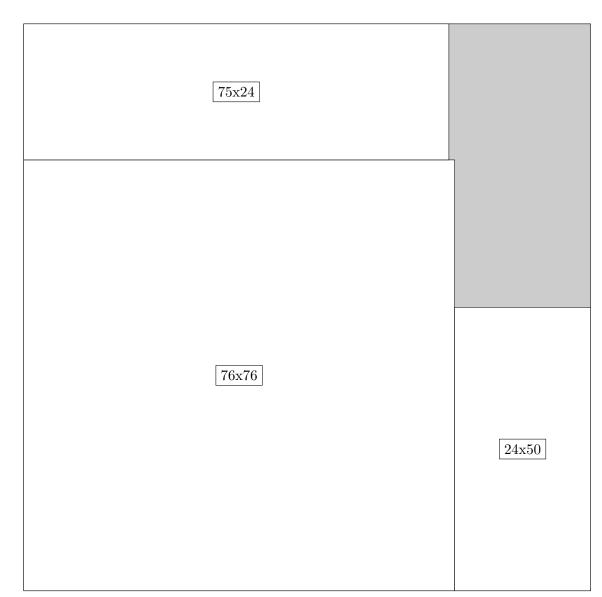
w =8 , h =47 , x =85 , y =52 , v =376

 \mathbf{w} =4 , h =30 , x =93 , y =52 , v =120



$$\begin{array}{l} w = \!\!\! 72 \ , \ h = \!\!\! 82 \ , \ x = \!\!\! 0 \ , \ y = \!\!\! 0 \ , \ v = \!\!\! 5904 \\ w = \!\!\! 28 \ , \ h = \!\!\! 46 \ , \ x = \!\!\! 72 \ , \ y = \!\!\! 0 \ , \ v = \!\!\! 1288 \end{array}$$

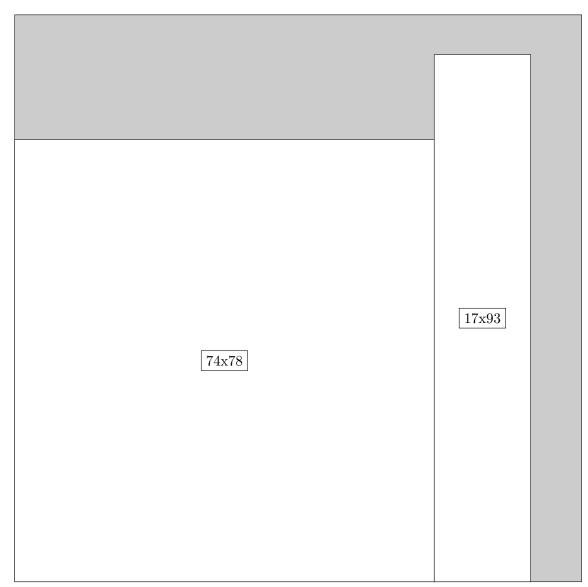
$$w = 23$$
, $h = 40$, $x = 12$, $y = 0$, $v = 1236$
 $w = 17$, $h = 35$, $x = 72$, $y = 46$, $v = 595$

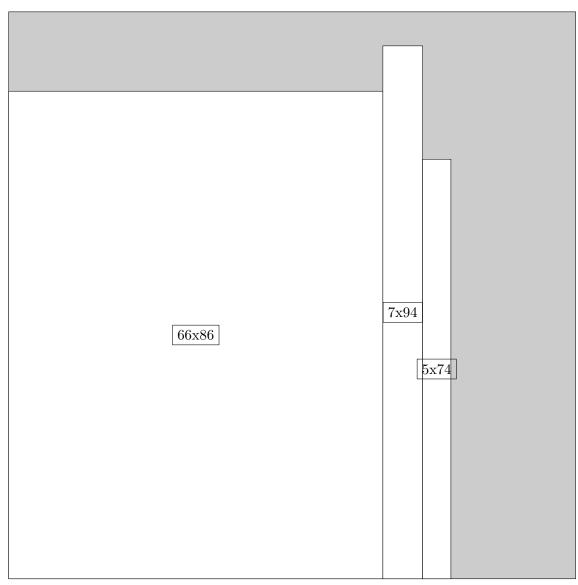


$$w = 76$$
, $h = 76$, $x = 0$, $y = 0$, $v = 5776$

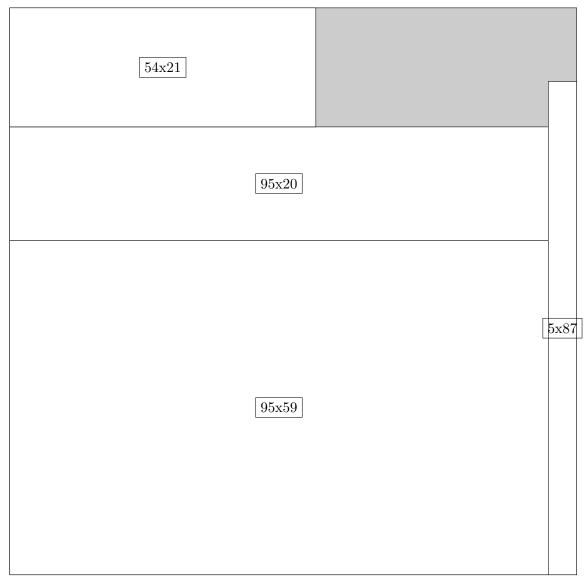
$$\le =75$$
 , h =24 , x =0 , y =76 , v =1800

$$\le =24$$
 , h =50 , x =76 , y =0 , v =1200





 $\begin{array}{l} w = \!\!66 \;, \; h = \!\!86 \;, \; x = \!\!0 \;, \; y = \!\!0 \;, \; v = \!\!5676 \\ w = \!\!7 \;, \; h = \!\!94 \;, \; x = \!\!66 \;, \; y = \!\!0 \;, \; v = \!\!658 \\ w = \!\!5 \;, \; h = \!\!74 \;, \; x = \!\!73 \;, \; y = \!\!0 \;, \; v = \!\!370 \end{array}$

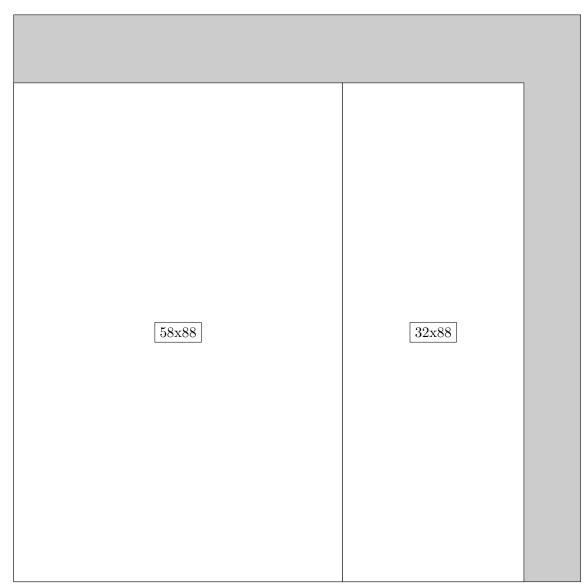


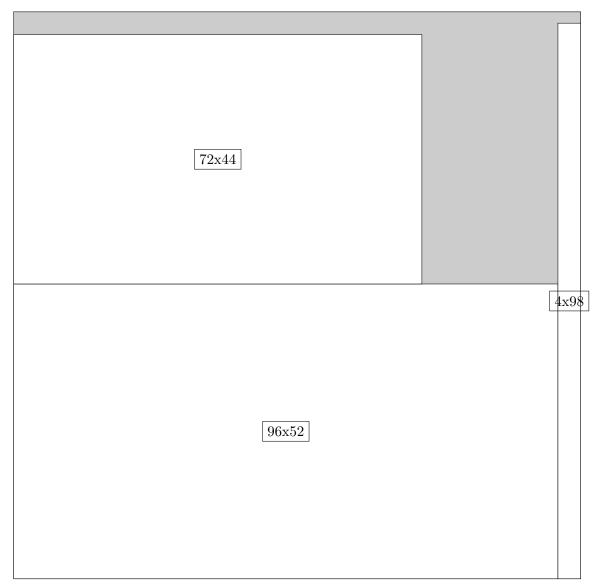
$$\le 95$$
 , $h = 59$, $x = 0$, $y = 0$, $v = 5605$

$$\le =95$$
 , h =20 , x =0 , y =59 , v =1900

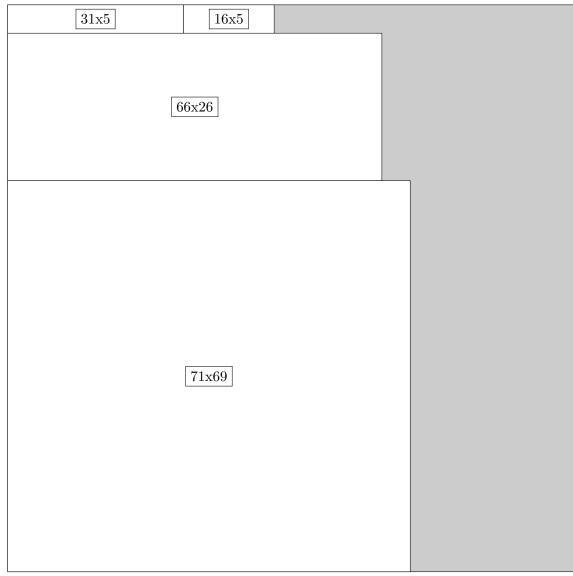
$$\mathbf{w}=\!\!54$$
 , $\mathbf{h}=\!\!21$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!79$, $\mathbf{v}=\!\!1134$

$$w$$
 =5 , h =87 , x =95 , y =0 , v =435





$$\begin{array}{l} w = \! 96 \ , \ h = \! 52 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 4992 \\ w = \! 72 \ , \ h = \! 44 \ , \ x = \! 0 \ , \ y = \! 52 \ , \ v = \! 3168 \\ w = \! 4 \ , \ h = \! 98 \ , \ x = \! 96 \ , \ y = \! 0 \ , \ v = \! 392 \end{array}$$

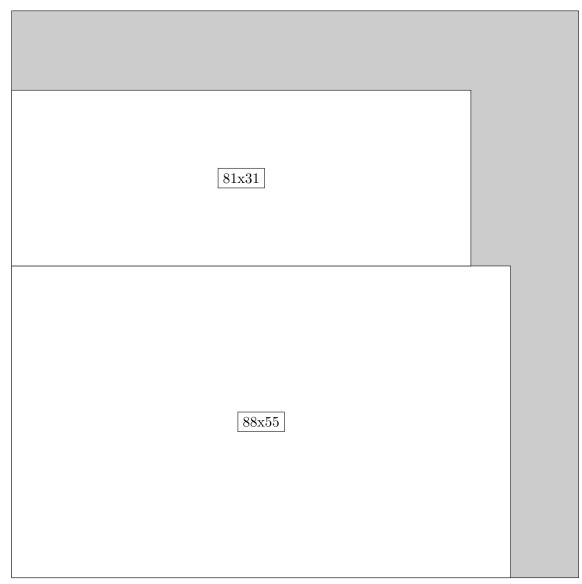


$$\mathbf{w}$$
 =71 , h =69 , x =0 , y =0 , v =4899

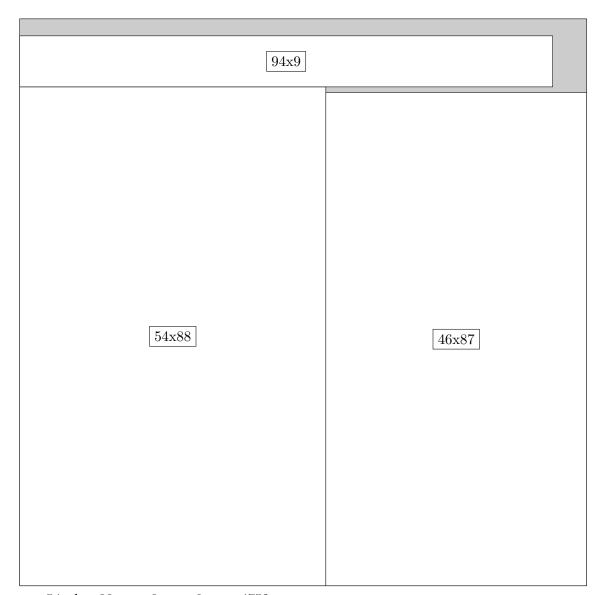
$$\le =66$$
 , h =26 , x =0 , y =69 , v =1716

$$\le =31$$
 , h =5 , x =0 , y =95 , v =155

$$w=\!16$$
 , $h=\!5$, $x=\!31$, $y=\!95$, $v=\!80$

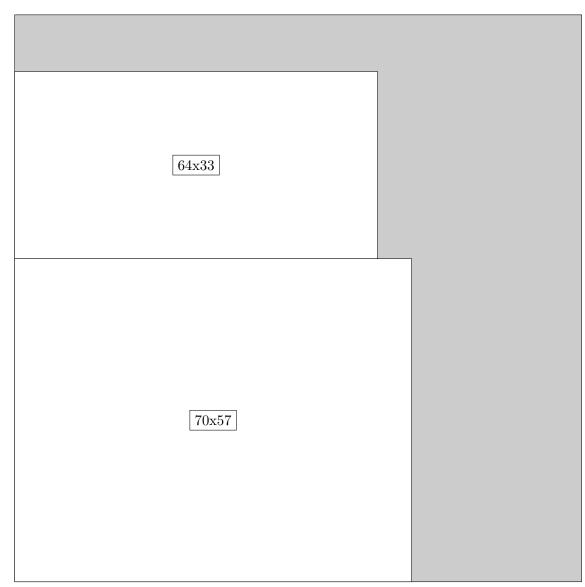


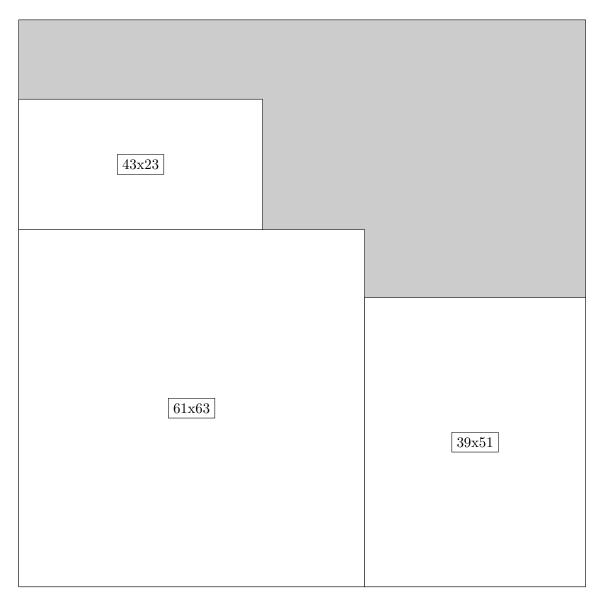
$$\begin{array}{l} w = \! 88 \ , \ h = \! 55 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 4840 \\ w = \! 81 \ , \ h = \! 31 \ , \ x = \! 0 \ , \ y = \! 55 \ , \ v = \! 2511 \end{array}$$



$$\begin{array}{l} w = \! 54 \ , \ h = \! 88 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 4752 \\ w = \! 46 \ , \ h = \! 87 \ , \ x = \! 54 \ , \ y = \! 0 \ , \ v = \! 4002 \end{array}$$

$$\le 94$$
 , ≤ 94 , ≤ 94 , ≤ 94 , ≤ 94 , ≤ 946

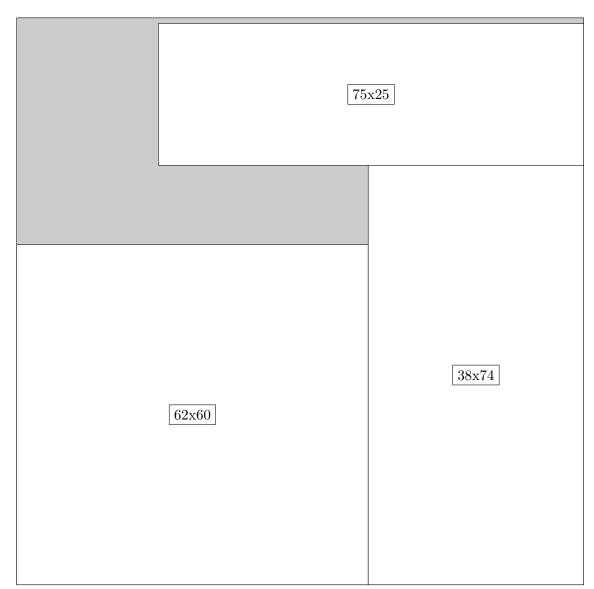




$$w = 61$$
, $h = 63$, $x = 0$, $y = 0$, $v = 3843$

$$\le =39$$
 , h =51 , x =61 , y =0 , v =1989

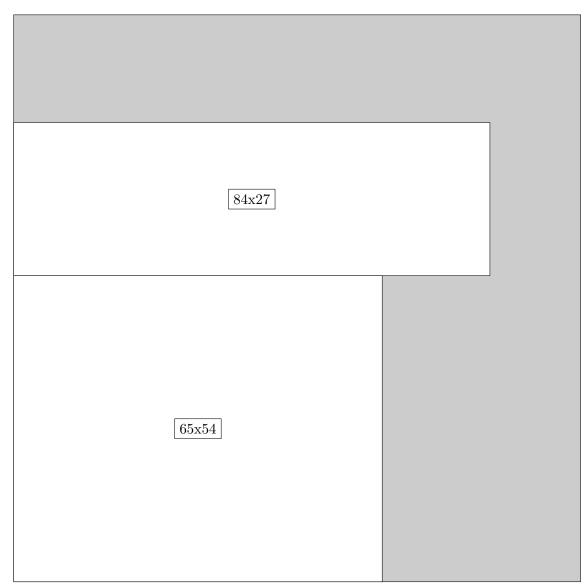
$$\le =43$$
 , h =23 , x =0 , y =63 , v =989

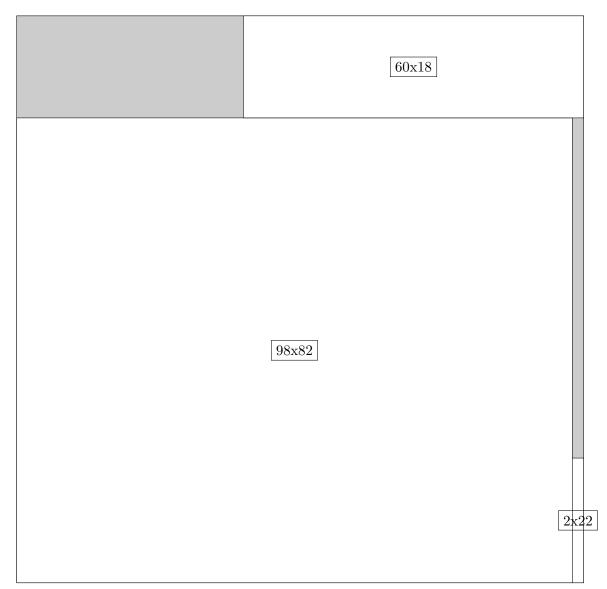


$$\mathbf{w}$$
 =62 , h =60 , x =0 , y =0 , v =3720

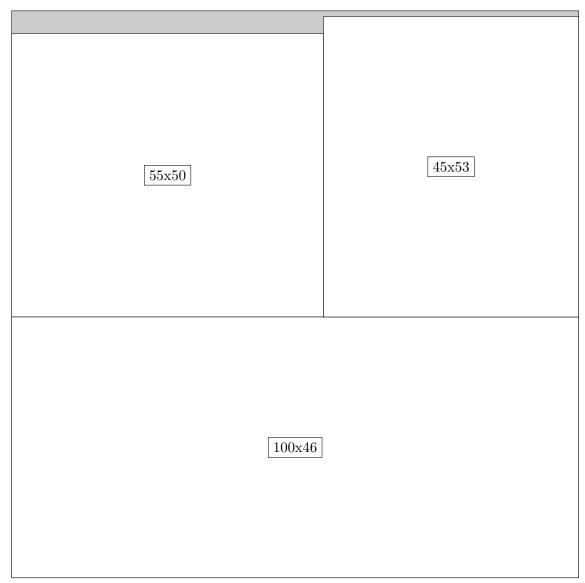
$$\le =38$$
 , h =74 , x =62 , y =0 , v =2812

$$\le =75$$
 , h =25 , x =25 , y =74 , v =1875

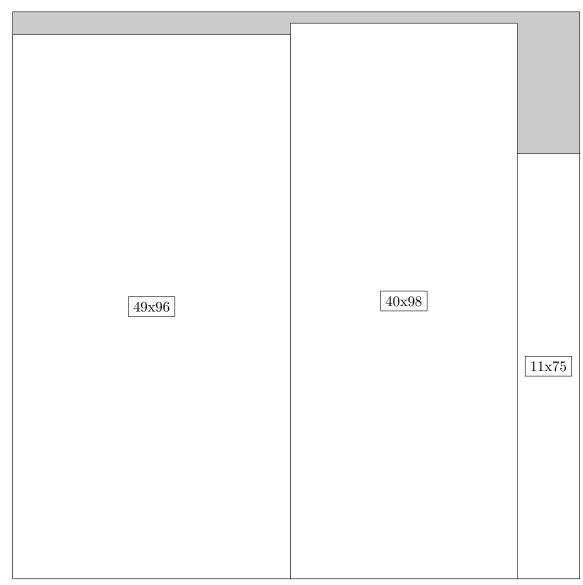




$$\begin{array}{l} w = \! 98 \ , \ h = \! 82 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 8036 \\ w = \! 60 \ , \ h = \! 18 \ , \ x = \! 40 \ , \ y = \! 82 \ , \ v = \! 1080 \\ w = \! 2 \ , \ h = \! 22 \ , \ x = \! 98 \ , \ y = \! 0 \ , \ v = \! 44 \end{array}$$



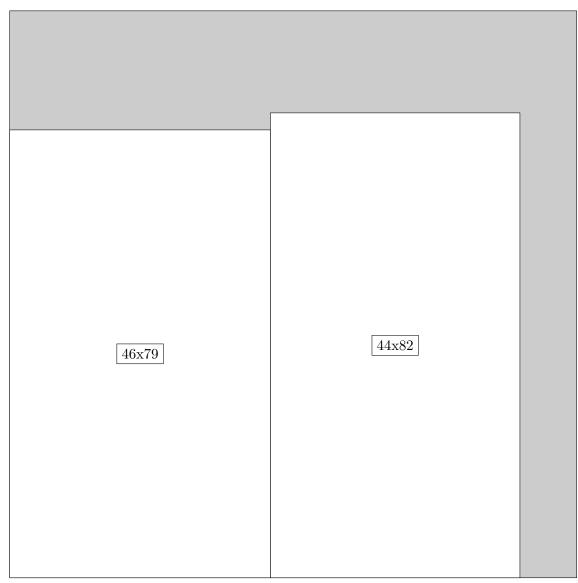
 $\begin{array}{l} w = \! 55 \; , \; h = \! 50 \; , \; x = \! 0 \; , \; y = \! 46 \; , \; v = \! 2750 \\ w = \! 100 \; , \; h = \! 46 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 4600 \\ w = \! 45 \; , \; h = \! 53 \; , \; x = \! 55 \; , \; y = \! 46 \; , \; v = \! 2385 \end{array}$

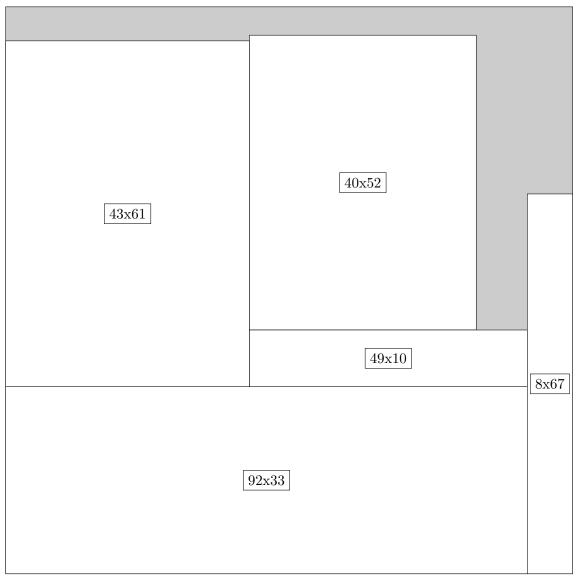


$$w = 49$$
, $h = 96$, $x = 0$, $y = 0$, $v = 4704$

$$\le =40$$
 , h =98 , x =49 , y =0 , v =3920

$$w=\!11$$
 , $h=\!75$, $x=\!89$, $y=\!0$, $v=\!825$





$$w = 92$$
, $h = 33$, $x = 0$, $y = 0$, $v = 3036$

$$\le =43$$
 , h =61 , x =0 , y =33 , v =2623

$$\le =40$$
 , h =52 , x =43 , y =43 , v =2080

$$w$$
 =8 , h =67 , x =92 , y =0 , v =536

$$w = 49$$
, $h = 10$, $x = 43$, $y = 33$, $v = 490$