${\bf ClassName:}~{\bf Class_01.2bp\text{-}31}$

BinSize: $\underline{10 \times 10}$ ReduceSize: $\underline{10 \times 10}$

TypeNum: <u>57</u> Num: <u>80</u> OutS: <u>2600</u> InS: <u>2407</u> Rate: <u>0.926</u> UB: <u>26</u> LB0: <u>26</u> LB: <u>26</u>

LBWithCut: $\underline{\mathbf{26}}$ NodeCut: $\underline{\mathbf{0}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{26}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.062 sTotalTime: 0.125 s



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



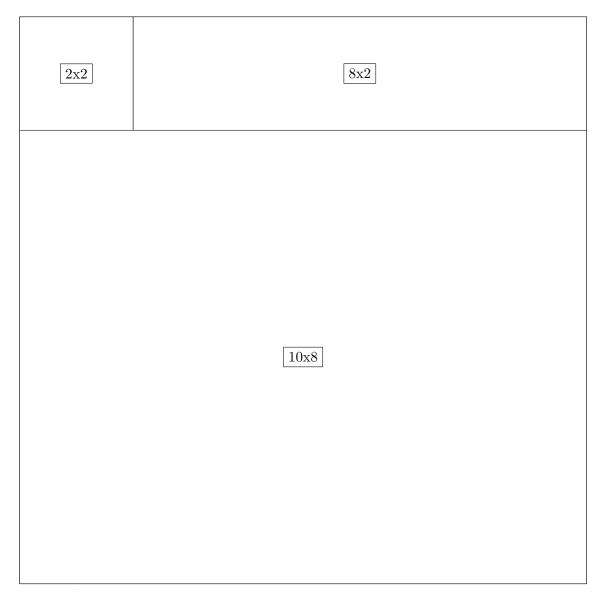
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100

| 3x1 | [5x1] | |
|-----|-------|--|
| | | |
| | | |
| | | |
| | | |
| 10 | x9 | |
| | | |
| | | |
| | | |
| | | |

$$\begin{array}{l} w = & 10 \ , \ h = & 9 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 90 \\ w = & 5 \ , \ h = & 1 \ , \ x = & 5 \ , \ y = & 9 \ , \ v = & 5 \\ w = & 3 \ , \ h = & 1 \ , \ x = & 2 \ , \ y = & 9 \ , \ v = & 3 \end{array}$$



w =9, h =10, x =0, y =0, v =90 w =1, h =10, x =9, y =0, v =10

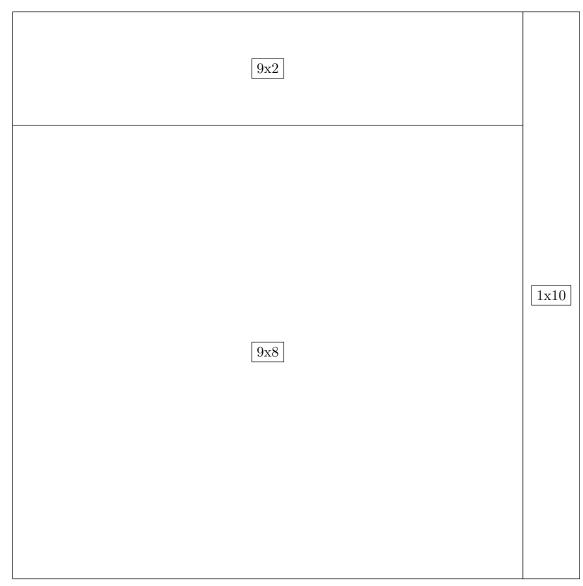


 $\begin{array}{l} w = & 10 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 80 \\ w = & 8 \ , \ h = & 2 \ , \ x = & 2 \ , \ y = & 8 \ , \ v = & 16 \\ w = & 2 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 8 \ , \ v = & 4 \end{array}$

| 5x2 | 5x2 |
|-----|-----|
| | |
| | |
| | x8 |
| | |

 $\begin{array}{l} w = & 10 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 80 \\ w = & 5 \ , \ h = & 2 \ , \ x = & 5 \ , \ y = & 8 \ , \ v = & 10 \\ w = & 5 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 8 \ , \ v = & 10 \end{array}$



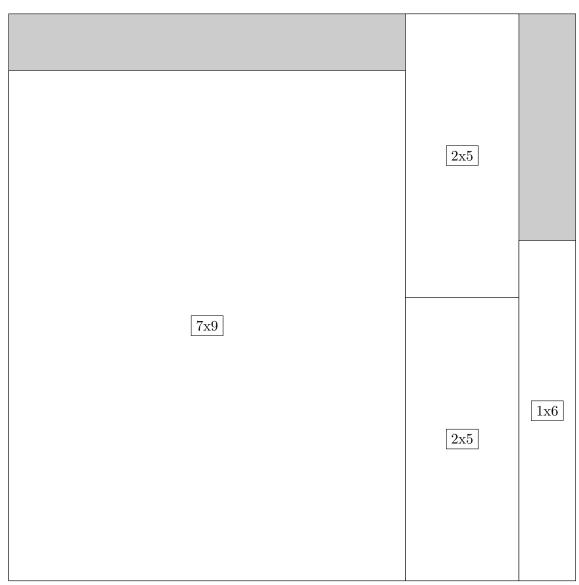


$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 72 \\ w = 9 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 18 \\ w = 1 \ , \ h = 10 \ , \ x = 9 \ , \ y = 0 \ , \ v = 10 \end{array}$$

| 8x9 | 2x9 |
|-----|-----|
| | |
| | |
| | |

 $\begin{array}{l} w = 8 \ , \, h = 9 \ , \, x = 0 \ , \, y = 0 \ , \, v = 72 \\ w = 2 \ , \, h = 9 \ , \, x = 8 \ , \, y = 0 \ , \, v = 18 \end{array}$

| 7x10 | 3x10 |
|------|------|
| | |

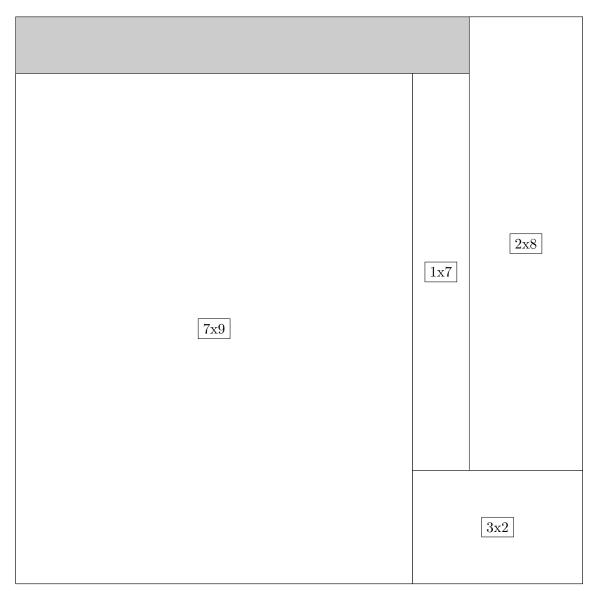


$$\mathbf{w}$$
 =7 , h =9 , x =0 , y =0 , v =63

$$\mathbf{w}$$
 =2 , h =5 , x =7 , y =0 , v =10

$$\mathbf{w}$$
 =2 , h =5 , x =7 , y =5 , v =10

$$\mathbf{w}$$
 =1 , h =6 , x =9 , y =0 , v =6



 \mathbf{w} =7 , h =9 , x =0 , y =0 , v =63 \mathbf{w} =2 , h =8 , x =8 , y =2 , v = 16

 \mathbf{w} =1 , h =7 , x =7 , y =2 , v =7

 \mathbf{w} =3 , h =2 , x =7 , y =0 , v =6

| 5x2 | 5x2 |
|-----|-----|
| | |
| 7x8 | 3x8 |
| | |

$$\begin{array}{l} w=7\ ,\, h=8\ ,\, x=0\ ,\, y=0\ ,\, v=56\\ w=3\ ,\, h=8\ ,\, x=7\ ,\, y=0\ ,\, v=24\\ w=5\ ,\, h=2\ ,\, x=5\ ,\, y=8\ ,\, v=10\\ w=5\ ,\, h=2\ ,\, x=0\ ,\, y=8\ ,\, v=10 \end{array}$$

| 6x9 | [4x9] |
|-----|-------|
| | |
| | |
| | |
| | |

 $\begin{array}{l} w = 6 \ , \, h = 9 \ , \, x = 0 \ , \, y = 0 \ , \, v = 54 \\ w = 4 \ , \, h = 9 \ , \, x = 6 \ , \, y = 0 \ , \, v = 36 \end{array}$

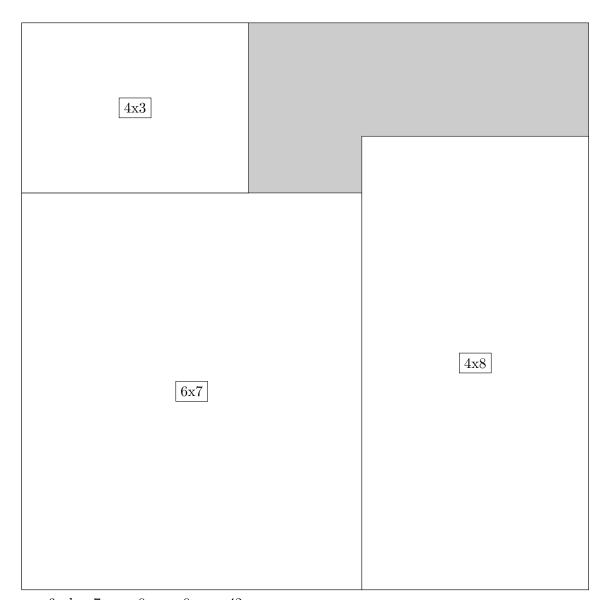
| 1x4 | | 9x4 | |
|-----|-----|-----|-----|
| | 8x6 | | 2x6 |

$$\mathbf{w}$$
 =8 , h =6 , x =0 , y =0 , v =48

$$w = 9$$
, $h = 4$, $x = 1$, $y = 6$, $v = 36$

$$\mathbf{w}$$
 =2 , h =6 , x =8 , y =0 , v =12

$$\mathbf{w}$$
 =1 , h =4 , x =0 , y =6 , v =4

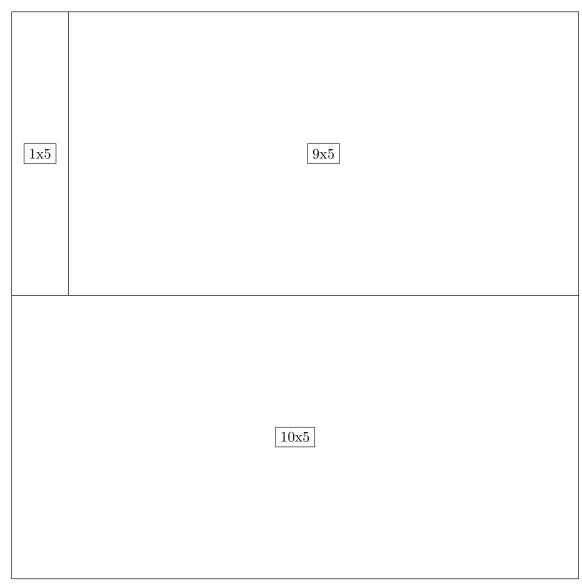


$$\begin{array}{l} w = 6 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 42 \\ w = 4 \ , \ h = 8 \ , \ x = 6 \ , \ y = 0 \ , \ v = 32 \end{array}$$

 \mathbf{w} =4 , h =3 , x =0 , y =7 , v =12

| 1x2 | | 04 | |
|-----|----------|-----|-----|
| 1x2 | | 9x4 | |
| | | | |
| | 6x6 | | 4x6 |
| | | | |
| | A 1 C 26 | | |

$$\begin{array}{l} w=9 \ , \ h=4 \ , \ x=1 \ , \ y=6 \ , \ v=36 \\ w=4 \ , \ h=6 \ , \ x=6 \ , \ y=0 \ , \ v=24 \\ w=6 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=36 \\ w=1 \ , \ h=2 \ , \ x=0 \ , \ y=6 \ , \ v=2 \\ w=1 \ , \ h=2 \ , \ x=0 \ , \ y=8 \ , \ v=2 \end{array}$$



$$\begin{array}{l} w = \! 10 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 9 \ , \ h = \! 5 \ , \ x = \! 1 \ , \ y = \! 5 \ , \ v = \! 45 \\ w = \! 1 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 5 \ , \ v = \! 5 \end{array}$$

| | 3x3 | 1x6 | 2x6 | 2x6 |
|-----|-----|-----|-----|-----|
| | | | | |
| 5x7 | | | 5x4 | |

w = 5, h = 7, x = 0, y = 0, v = 35

 \mathbf{w} =5 , h =4 , x =5 , y =0 , v =20

 \mathbf{w} =2 , h =6 , x =8 , y =4 , v =12

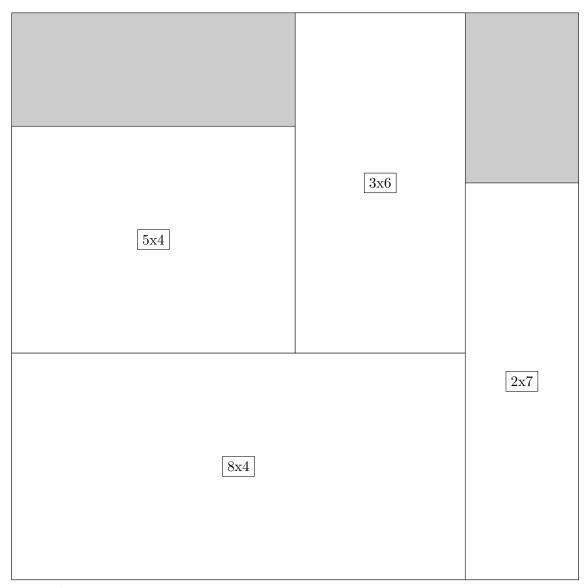
 \mathbf{w} =2 , h =6 , x =6 , y =4 , v =12

w = 3, h = 3, x = 2, y = 7, v = 9

 \mathbf{w} =1 , h =6 , x =5 , y =4 , v =6

| 8x3 | | |
|-----|--|-----|
| 5x7 | | 5x7 |

 $\begin{array}{l} w = 5 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 35 \\ w = 5 \ , \ h = 7 \ , \ x = 5 \ , \ y = 0 \ , \ v = 35 \\ w = 8 \ , \ h = 3 \ , \ x = 2 \ , \ y = 7 \ , \ v = 24 \end{array}$



 $\le =8$, h =4 , x =0 , y =0 , v =32

 \mathbf{w} =5 , h =4 , x =0 , y =4 , v =20

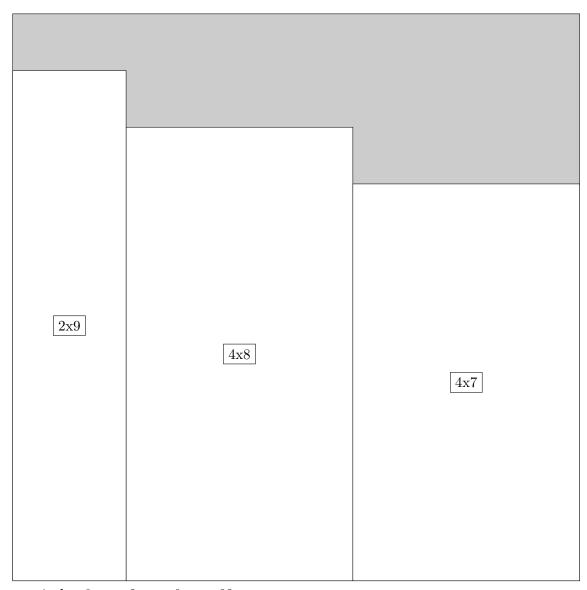
 \mathbf{w} =3 , h =6 , x =5 , y =4 , v = 18

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

| 5x5 | 5x5 |
|-----|-----|
| 6x5 | 4x5 |

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

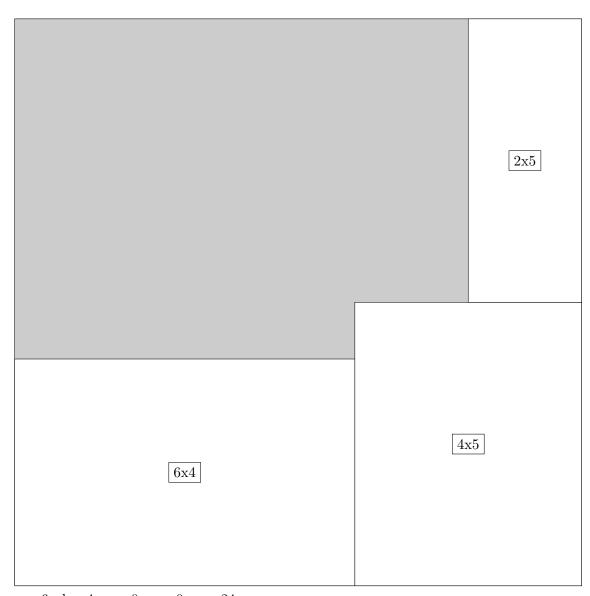
 $\mathbf{w}=\!\!4$, $\mathbf{h}=\!\!5$, $\mathbf{x}=\!\!6$, $\mathbf{y}=\!\!0$, $\mathbf{v}=\!\!20$



 $\begin{array}{l} w = \!\! 4 \ , \ h = \!\! 8 \ , \ x = \!\! 2 \ , \ y = \!\! 0 \ , \ v = \!\! 32 \\ w = \!\! 4 \ , \ h = \!\! 7 \ , \ x = \!\! 6 \ , \ y = \!\! 0 \ , \ v = \!\! 28 \\ w = \!\! 2 \ , \ h = \!\! 9 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 18 \end{array}$

| 7x4 | |
|-----|-----|
| 6x4 | 4x4 |

 $\begin{array}{l} w = 7 \ , \ h = 4 \ , \ x = 0 \ , \ y = 4 \ , \ v = 28 \\ w = 6 \ , \ h = 4 \ , \ x = 0 \ , \ y = 0 \ , \ v = 24 \\ w = 4 \ , \ h = 4 \ , \ x = 6 \ , \ y = 0 \ , \ v = 16 \end{array}$



$$\begin{array}{l} w = 6 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 24 \\ w = \! 4 \ , \ h = \! 5 \ , \ x = \! 6 \ , \ y = \! 0 \ , \ v = \! 20 \end{array}$$

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

| 5x9 | $\boxed{4\mathrm{x}9}$ | 1x9 |
|-----|------------------------|-----|
| | | |
| | | |
| | | |
| | | |

 $\begin{array}{l} w = 5 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 45 \\ w = 4 \ , \ h = 9 \ , \ x = 5 \ , \ y = 0 \ , \ v = 36 \end{array}$

w = 1 , h = 9 , x = 9 , y = 0 , v = 9