



$$1 \cdot 2^3 + 1 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0$$

$$8 + 4 + 0 + 1 = 13_{10}$$

`print(x)`

<sup>64</sup> <sup>32</sup> <sup>16</sup> <sup>8</sup> <sup>4</sup> <sup>2</sup> <sup>1</sup>  
1 1 ~~0~~ 1 ~~0~~ 1 1

$$64 + 32 + 8 + 2 + 1 = 107_{10}$$

DEC  $\rightarrow$  BIN

$$74_{10} = ( \quad )_2 \quad ?$$

$$64 + 10$$

$$64 + 8 + 2$$

$$2^6 + 2^3 + 2^1$$

$$1001010_2$$

2

74	0
37	1
18	0
9	1
4	0
2	0
1	1
0	

DEC  $\rightarrow$  BW

1001010<sub>2</sub>

$$74 \div 2 = 37$$

$$37 \div 2 = 18 \text{ RESTO } 1$$

$$\begin{array}{r}
 \begin{array}{cccccc}
 1 & 1 & 1 & 1 & & \\
 0 & 1 & 0 & 1 & 1 & 0 \\
 0 & 0 & 1 & 0 & 1 & 0 \\
 \hline
 1 & 0 & 0 & 0 & 0 & 0
 \end{array}
 \end{array}$$

$2^5$

$16 + 4 + 2 = 22$   
 $8 + 2 = 10$   
32

$= 32$

$$\begin{array}{r}
 0 \\
 0 \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 0 \\
 1 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 1 \\
 0 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 \overset{1}{\curvearrowright} 1 \\
 1 \\
 \hline
 0
 \end{array}$$

$$2 \rightarrow 0 \quad R1$$

$$3 \rightarrow 1 \quad R1$$

$$\begin{array}{r}
 \overset{1}{\curvearrowright} 0 \\
 0 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 \overset{1}{\curvearrowright} \overset{1}{\curvearrowright} 0 \\
 1 \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 \overset{1}{\curvearrowright} \overset{1}{\curvearrowright} 1 \\
 0 \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 \overset{1}{\curvearrowright} \overset{1}{\curvearrowright} 1 \\
 1 \\
 \hline
 1
 \end{array}$$

$$\begin{array}{r} -1 \quad +2 \\ 1 \quad 0 \quad 1 \quad 1 \quad 0 \quad - \end{array}$$

$$\begin{array}{r} 0 \quad 1 \quad 0 \quad 1 \quad 0 \\ \hline 0 \quad 1 \quad 1 \quad 0 \quad 0 \end{array} =$$

$$22-$$

$$\underline{10}$$

$$12$$

$$\begin{array}{r} \textcircled{-1}^{+2} \quad 0 \quad 1 \quad - \\ 1 \quad 0 \\ \hline 1 \quad 1 \end{array}$$

$$\begin{array}{r} 1 \quad - \\ 2 \\ \hline 3 \end{array}$$

$$100111000$$