

$$\begin{array}{r} 1 \ 1 \ 1 \\ 0 \ 9 \ 6 \ 8 \ 2 \ 5 \\ \quad 8 \ 8 \ 9 \ 5 \\ \hline 9 \ 9 \ 5 \ 2 \ 3 \ 0 \end{array}$$

$$\begin{array}{r} 9 \ 6 \ 1 \ 6 \ 8 \ 2 \ 5 \\ + \quad 8 \ 8 \ 9 \ 5 \\ \hline 9 \ 9 \ 5 \ 2 \ 3 \ 0 \end{array}$$

$$\begin{array}{r} 9 \ 9 \ 5 \ 2 \ 3 \ 0 \\ + \quad 0 \ 0 \ 0 \ 0 \ 1 \\ \hline 1 \ 0 \ 0 \ 0 \ 0 \end{array}$$

$1 = 8 \times 8 \times 2 \times 0 \times 2$
 $9 = 8 \times 8 \times 8 \times 5$
 $5 = 8 \times 8 \times 2 \times 0 \times 1$
 $0 = 8 \times 8 \times 8 \times 0$

$$\begin{array}{r} 1 \ 1 \ 1 \ 1 \ 1 \ 0 \\ 0 \ 9 \ 6 \ 8 \ 2 \ 5 \\ \hline 9 \ 9 \ 5 \ 2 \ 3 \ 0 \\ \hline 1 \ 0 \ 0 \ 0 \ 0 \end{array}$$

$$\begin{array}{r} 9 \ 6 \ 1 \ 6 \ 8 \ 2 \ 5 \\ + \quad 8 \ 8 \ 9 \ 5 \\ \hline 9 \ 9 \ 5 \ 2 \ 3 \ 0 \end{array}$$

$$\begin{array}{r} 8 \ 8 \ 9 \ 5 \\ + \quad 2 \ 0 \ 2 \ 3 \\ \hline 1 \ 0 \ 9 \ 1 \ 8 \end{array}$$

```

def add(a, b):
    n = len(a)
    carry = 0
    for i in range(n):
        sum = (int(a[i]) + int(b[i]) + carry) % 10
        carry = (int(a[i]) + int(b[i]) + carry) // 10
    return sum, carry

```

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    return sum, carry

```

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

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

$$\begin{array}{r} 0 \ 0 \ 0 \ 0 \ 1 \ 0 \ 0 \ 0 \\ \hline 0 \ 0 \ 0 \ 0 \ 1 \ 0 \ 0 \ 0 \end{array} \rightarrow 100$$

$$100$$

$$\frac{0 \ 0 \ 0 \ 0 \ 1 \ 0 \ 0 \ 0}{0 \ 0 \ 0 \ 0 \ 1 \ 0 \ 0 \ 0}$$

$$\text{num } A > \text{num } B$$

$$A - B = 80$$

$$\begin{array}{r} 8 \ 9 \ 1 \ 6 \ 8 \ 2 \ 5 \\ 2 \ 6 \ 9 \ 9 \ 9 \end{array}$$

$$\begin{array}{r} 1 \ 0 \ 0 \ 0 \\ 1 \ 9 \ 9 \ 9 \end{array}$$

$$A + B = C$$