

$$101_2 + 101_2 \Rightarrow 5 + 5 = 10 = 1010_2$$

$$\begin{array}{r} 101 \\ 101 \\ \hline 1010 \end{array}$$

$$101_2 + 101_2$$

$$\begin{array}{r} 101 \\ 101 \\ \hline 110 \end{array}$$

$$2 = 2 \cdot -1 + 0$$

$$-1 = 2 \cdot 1 + 1$$

$$3 = 2 \cdot -1 + 1$$

$$-1 = 2 \cdot 1 + 1$$

$$1 = 2 \cdot 0 + 1$$

$$\text{arr}_1 = [1, 0, 1]$$

$$\text{arr}_2 = [1, 0, 1]$$

$$\text{sum} = \text{arr}_1[i] + \text{arr}_2[j] + c$$

$$c = \underline{\underline{-(\text{sum} > 1)}}$$

for base -2

\Rightarrow for base -16

$\Rightarrow -(\text{sum} > 4)$