$$\begin{split} For \quad i &= 0, 1, ..., n-1 \\ \begin{cases} C_{used}^{(n-1-i)} &= A^{(i)} \ \% \ C[n-1-i] \\ A^{(i+1)} &= A^{(i)} - C_{used}^{(n-1-i)} \times C[n-1-i] \end{cases} \end{split}$$