

## 课后作业29

### ■ 课后练习

□ 给定集合  $S=\{3, 7, 5, 9\}$ ,  $C=20$ , 近似参数  $\epsilon=0.2$ , 写出近似算法求解子集和问题的过程。

$$\delta = \epsilon/4 = 0.05$$

$$L_0 = \{0\}$$

$$L_1 = L_0 \cup (L_0 + 3) = \{0, 3\}; \text{ 无须修正}$$

$$L_2 = L_1 \cup (L_1 + 7) = \{0, 3, 7, 10\}; \text{ 无须修正}$$

$$L_3 = L_2 \cup (L_2 + 5) = \{0, 3, 5, 7, 8, 10, 12, 15\}; \text{ 无须修正}$$

$$L_4 = L_3 \cup (L_3 + 9) = \{0, 3, 5, 7, 8, 9, 10, 12, 14, 15, 16, 17, 19, 20\}$$