

$$n=6 \quad m=3$$

$$231$$

$$(1, 13) \quad (30, 9) \quad (2, 18) \quad (25, 4) \quad (3, 25) \quad (28, 13)$$

$$L(x) = \sum_{j=0}^k y_j l_j$$

$$l_j(x) = \prod_{\substack{0 \leq m \leq k \\ m \neq j}} \frac{x - x_m}{x_j - x_m}$$

$$l_j(x) = \prod_{\substack{i=0 \\ i \neq j}}^3$$

$$\frac{x - x_j}{x_j - x_i}$$

$$\frac{x - x_i}{x_j - x_i}$$

$$\frac{x - 1}{3 - 1}$$

$$\frac{x - 1}{3 - 1}$$

$$\mu = F(0) = \sum_{j=0}^m s_j l_j \pmod{31}$$

$$l_j = \prod_{\substack{1 \leq i \leq m \\ i \neq j}} \frac{0 - x_i}{x_j - x_i} \pmod{31}$$

$$l_1 = \frac{0-2}{1-2} \cdot \frac{0-3}{1-3} = \frac{-2}{-1} \cdot \frac{-3}{-2} = 2 \cdot 14 \equiv 9$$

$$l_2 = \frac{0-1}{2-1} \cdot \frac{0-3}{2-3} = (-1) \cdot 3 \equiv 28$$

$$l_3 = \frac{0-1}{3-1} \cdot \frac{0-2}{3-2} = 15 \cdot (-2) \equiv 1$$

$$\mu \equiv 13 \cdot 9 + 18 \cdot 28 + 25 \cdot 1 = 39 + 504 + 25 = 568 \equiv 11$$