

Decrypt the ElGamal ciphertext presented in [Table 7.4](#). The parameters of the system are $p = 31847$, $\alpha = 5$, $a = 7899$ and $\beta = 18074$. Each element of \mathbb{Z}_n represents three alphabetic characters as in Exercise 6.12.

The plaintext was taken from *The English Patient*, by Michael Ondaatje, Alfred A. Knopf, Inc., New York, 1992.