Cryptography: Homework 8

(Deadline: 10am, 2022/11/18)

1. (40 points) Implement the DES encryption algorithm. Show your source codes.
2. (10 points) Let $a = 927372692193078999176$ and $b = 573147844013817084101$. Find two integers $s, t \in \mathbb{Z}$ such that $\gcd(a, b) = as + bt$.