CPA-secure encryption

- Let F be a keyed function

- Gen(1^n): choose a uniform key $k \in \{0, 1\}^n$
- $Enc_k(m)$, for $|m| = |k|$:
  - Choose uniform $r \in \{0, 1\}^n$
  - Output ciphertext $< r, F_k(r) \oplus m >$
- $Dec_k(< c_1, c_2 >)$: output $c_2 \oplus F_k(c_1)$

과제

n(key size) = 128
m = "CPA-secure"

주어진 CPA 시작코드에서 Gen, Enc, Dec 함수 완성하기
(다른 부분은 수정할 필요 없음)

출력 예:

```
r   : 3C468577F727AC2360F26F4AFBFDB945
Fkr : CB24C3D9F6AE51A75F2C9E7AE276C08B
Fkc : CB24C3D9F6AE51A75F2C9E7AE276C08B
C1  : 3C468577F727AC2360F26F4AFBFDB945
C2  : CB24C3D9F6AE12F71E01ED1F8103B2EE
Dec : CPA-secure
```

※Dec을 제외한 나머지 값은 실행시마다 달라짐