

## Exercise Praktikum Kriptografi #2

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### Exercise

- Enkripsikan GOPHER dengan  $K = 20$
- Ubah ZGXEIDZJN menjadi Plaintext dengan  $K = 15$

Enkripsi

$K = 20$

G O P H E R = 6 14 15 7 4 17

$$E(6) = (6 + 20) \bmod 26 = 26 \bmod 26 = 0 > A$$

$$E(14) = (14 + 20) \bmod 26 = 34 \bmod 26 = 8 > I$$

$$E(15) = (15 + 20) \bmod 26 = 35 \bmod 26 = 9 > J$$

$$E(7) = (7 + 20) \bmod 26 = 27 \bmod 26 = 1 > B$$

$$E(4) = (4 + 20) \bmod 26 = 24 \bmod 26 = 24 > Y$$

$$E(17) = (17 + 20) \bmod 26 = 37 \bmod 26 = 11 > L$$

**GOPHER** > E(x) = **AIJBYL**

Deskripsi

$K = 15$

Z G X E I D Z J N = 25 6 23 4 8 3 25 9 13

$$D(25) = (25 - 15) \bmod 26 = 10 \bmod 26 = 10 > K$$

$$D(6) = (6 - 15) \bmod 26 = -9 \bmod 26 = 17 > R$$

$$D(23) = (23 - 15) \bmod 26 = 8 \bmod 26 = 8 > I$$

$$D(4) = (4 - 15) \bmod 26 = -11 \bmod 26 = 15 > P$$

$$D(8) = (8 - 15) \bmod 26 = -7 \bmod 26 = 19 > T$$

$$D(3) = (3 - 15) \bmod 26 = -12 \bmod 26 = 14 > O$$

$$D(25) = (25 - 15) \bmod 26 = 10 \bmod 26 = 10 > K$$

$$D(9) = (9 - 15) \bmod 26 = -6 \bmod 26 = 20 \quad > \text{U}$$

$$D(13) = (13 - 15) \bmod 26 = -2 \bmod 26 = 24 \quad > \text{Y}$$

$$\text{ZGXEIDZJN} > E(x) = \text{KRIPTOKUY}$$