[TUGAS AFFINE CIPHER]

P R A M E S   R A Y   L A P I A N
15 17 0 12 4 18   17 0 24   11 0 15 8 0 13

a = 9
b = 59

E(x) = (ax + b) mod 26
[P] = (9.15 + 59)   mod 26 = 194   mod 26 = 12   -> [M]
[R] = (9.17 + 59)   mod 26 = 212   mod 26 = 4   -> [E]
[A] = (9.0 + 59)   mod 26 = 59   mod 26 = 7   -> [H]
[M] = (9.12 + 59)   mod 26 = 167   mod 26 = 11   -> [L]
[E] = (9.4 + 59)   mod 26 = 59   mod 26 = 7   -> [H]
[S] = (9.18 + 59)   mod 26 = 221   mod 26 = 13   -> [N]

[R] = (9.17 + 59)   mod 26 = 212   mod 26 = 4   -> [E]
[A] = (9.0 + 59)   mod 26 = 59   mod 26 = 7   -> [H]
[Y] = (9.24 + 59)   mod 26 = 275   mod 26 = 15   -> [P]

[L] = (9.11 + 59)   mod 26 = 158   mod 26 = 2   -> [C]
[A] = (9.0 + 59)   mod 26 = 59   mod 26 = 7   -> [H]
[P] = (9.15 + 59)   mod 26 = 194   mod 26 = 12   -> [M]
[I] = (9.8 + 59)   mod 26 = 131   mod 26 = 1   -> [B]
[A] = (9.0 + 59)   mod 26 = 59   mod 26 = 7   -> [H]
[N] = (9.13 + 59)   mod 26 = 176   mod 26 = 20   -> [U]

E(x) = M E H L H N   E H P   C H M B H U

D(y) = a^-1 (y - b) mod 26

Mencari a^-1:
GCD(a, m) = GCD(9, 26)
26   = 9 * 2 + 8
9   = 8 * 1 + 1
8   = 1 * 8 + 0

t0   = 0
t1   = 1
t2   = (t0 - (q1 . t1))   mod 26
        = (0 - (2 * 1))   mod 26
        = (0 - 2)   mod 26
        = -2   mod 26
        = 24
t3   = (t1 - (q2 . t2))   mod 26
        = (1 - (1 * 24))   mod 26
        = (1 - 24)   mod 26
        = -23   mod 26
        = 3

a^-1 = 3

[M] = a^-1 (12 - 59) mod 26 = 3 * -47 mod 26 = 15 -> [P]
[E] = a^-1 (4 - 59) mod 26 = 3 * -55 mod 26 = 17 -> [R]
[H] = a^-1 (7 - 59) mod 26 = 3 * -52 mod 26 = 0 -> [A]
[L] = a^-1 (11 - 59) mod 26 = 3 * -48 mod 26 = 12 -> [M]
[H] = a^-1 (7 - 59) mod 26 = 3 * -52 mod 26 = 4 -> [E]
[N] = a^-1 (13 - 59) mod 26 = 3 * -46 mod 26 = 18 -> [S]

[E] = a^-1 (4 - 59) mod 26 = 3 * -55 mod 26 = 17 -> [R]
[H] = a^-1 (7 - 59) mod 26 = 3 * -52 mod 26 = 0 -> [A]
[P] = a^-1 (15 - 59) mod 26 = 3 * -44 mod 26 = 24 -> [Y]

[C] = a^-1 (2 - 59) mod 26 = 3 * -57 mod 26 = 11 -> [L]
[H] = a^-1 (7 - 59) mod 26 = 3 * -52 mod 26 = 0 -> [A]
[M] = a^-1 (12 - 59) mod 26 = 3 * -47 mod 26 = 15 -> [P]
[B] = a^-1 (1 - 59) mod 26 = 3 * -58 mod 26 = 8 -> [I]
[H] = a^-1 (7 - 59) mod 26 = 3 * -52 mod 26 = 0 -> [A]
[U] = a^-1 (20 - 59) mod 26 = 3 * -39 mod 26 = 13 -> [N]

D(x) = P R A M E S R A Y L A P I A N