

main.c

Share

Run

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 #define SIZE 2 // Size of the key matrix (2x2 for simplicity)
5
6 // Function to find the modular inverse of a number
7 int modInverse(int a, int m) {
8     for (int x = 1; x < m; x++) {
9         if ((a * x) % m == 1) {
10             return x;
11         }
12     }
13     return -1; // Inverse doesn't exist
14 }
15
16 // Function to decrypt using the Hill cipher
17 void decryptHillCipher(int cipher[SIZE][SIZE], int key[SIZE][SIZE], int size) {
18     int det = (key[0][0] * key[1][1] - key[0][1] * key[1][0]) % 26;
19     int invDet = modInverse(det, 26);
20
21     if (invDet == -1) {
22         printf("Key is not invertible.\n");
23         return;
24     }
25
26     // Calculate the inverse key matrix
```

Output

Clear

Key is not invertible.

=== Code Execution Successful ===

Activate Windows
Go to Settings to activate Windows.