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#include <stdio.h>

int mod26(int x) {
    return (x % 26 + 26) % 26;
}

int main() {
    char text[3];
    int key[2][2] = {{3, 3}, {2, 5}};
    int invKey[2][2] = {{15, 17}, {20, 9}};
    int i;

    printf("Enter 2-letter text: ");
    scanf("%s", text);

    /* Encryption */
    int c1 = mod26(key[0][0]*(text[0]-'A') + key[0][1]*(text[1]-'A'
    ));
    int c2 = mod26(key[1][0]*(text[0]-'A') + key[1][1]*(text[1]-'A'
    ));

    printf("Encrypted Text: %c%c\n", c1+'A', c2+'A');

    /* Decryption */
    int p1 = mod26(invKey[0][0]*c1 + invKey[0][1]*c2);
    int p2 = mod26(invKey[1][0]*c1 + invKey[1][1]*c2);
```

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printf("Decrypted Text: %c%c\n", p1+'A', p2+'A');  
return 0;
```

Enter 2-letter text: BP

Encrypted Text: WZ

Decrypted Text: BP

=== Code Execution Successful ===