

```
#include <stdio.h>

#include <string.h>

#include <ctype.h>
```

```
Void encrypt(char text[], int shift) {

    For (int I = 0; text[i] != '\0'; i++) {

        If (isalpha(text[i])) {

            Char base = islower(text[i]) ? 'a' : 'A';

            Text[i] = (text[i] - base + shift) % 26 + base;

        }

    }

}
```

```
Void decrypt(char text[], int shift) {

    For (int I = 0; text[i] != '\0'; i++) {

        If (isalpha(text[i])) {

            Char base = islower(text[i]) ? 'a' : 'A';

            Text[i] = (text[i] - base - shift + 26) % 26 + base;

        }

    }

}
```

```
Int main() {

    Char text[100];

    Int shift, choice;
```

```
Printf("Enter text: ");
Fgets(text, sizeof(text), stdin);
Text[strcspn(text, "\n")] = '\0';

Printf("Enter shift value: ");
Scanf("%d", &shift);
Shift %= 26;

Printf("Choose an option:\n1. Encrypt\n2. Decrypt\n");
Scanf("%d", &choice);

If (choice == 1) {
    Encrypt(text, shift);
    Printf("Encrypted text: %s\n", text);
} else if (choice == 2) {
    Decrypt(text, shift);
    Printf("Decrypted text: %s\n", text);
} else {
    Printf("Invalid choice!\n");
}

Return 0;
}
```