

```
#include <stdio.h>
#include <ctype.h>

int main() {
    char text[100];
    int i, key = 3;

    printf("Enter text: ");
    fgets(text, sizeof(text), stdin);

    /* Encryption */
    for (i = 0; text[i] != '\0'; i++) {
        if (isupper(text[i]))
            text[i] = (text[i] - 'A' + key) % 26 + 'A';
        else if (islower(text[i]))
            text[i] = (text[i] - 'a' + key) % 26 + 'a';
    }

    printf("Encrypted text: %s", text);

    /* Decryption */
    for (i = 0; text[i] != '\0'; i++) {
        if (isupper(text[i]))
            text[i] = (text[i] - 'A' - key + 26) % 26 + 'A';
        else if (islower(text[i]))
            text[i] = (text[i] - 'a' - key + 26) % 26 + 'a';
    }
}
```

```
}
```

```
printf("Decrypted text: %s", text);
```

```
return 0;
```

```
}
```

Enter text: hello

Encrypted text: khoor

Decrypted text: hello

==== Code Execution Successful ===