

Monoalphabetic cipher

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

```
#include <conio.h>
```

```
#include <string.h>
```

```
#define pf printf
```

```
#define sf scanf
```

```
char dc[26] = "XDGSZANYOBTMJCEVFHKWPLQURI";
```

```
char ec[26] = "abcdefghijklmnopqrstuvwxyz";
```

```
void e(char*);
```

```
void d(char*);
```

```
int main() {
```

```
    char p[100]; // Assume max input size is 100 characters
```

```
    pf("\n\nEnter plain text:");
```

```
    sf("%s",&p);
```

```
    pf("\nAfter Encryption:\n-----\n");
```

```
    e(p);
```

```
    pf("\n%s", p);
```

```
    pf("\nAfter Decryption:\n-----\n");
```

```
    d(p);
```

```
    pf("\n%s", p);
```

```
    getch();  
    return 0;  
}
```

```
void e(char *p) {  
    int l = 0;  
    while (*(p + l) != '\0') {  
        *(p + l) = dc[*(p + l) - 'a'];  
        l++;  
    }  
}
```

```
void d(char *p) {  
    int l = 0;  
    while (*(p + l) != '\0') {  
        int i;  
        for (i = 0; i < 26; i++) {  
            if (dc[i] == *(p + l))  
                break;  
        }  
        *(p + l) = ec[i];  
        l++;  
    }  
}
```

