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main.c



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```
1 #include <stdio.h>
2 #include <ctype.h>
3 #include <string.h>
4 void encryptCaesar(char *text, int k) {
5     for (int i = 0; text[i] != '\0'; i++) {
6         char ch = text[i];
7         if (isalpha(ch)) {
8             char base = isupper(ch) ? 'A' : 'a';
9             text[i] = (ch - base + k) % 26 + base;
10        }
11    }
12    }
13 int main() {
14     char message[1000];
15     int k;
16     printf("Enter a message to encrypt: ");
17     fgets(message, sizeof(message), stdin);
18     printf("Enter the shift value (1-25): ");
19     scanf("%d", &k);
20     if (k < 1 || k > 25) {
21         printf("Invalid shift value. Please enter a number between 1 and 25.\n");
22     }
23     encryptCaesar(message, k);
24     printf("Encrypted message: ");
25     puts(message);
26 }
```

```
Enter a message to encrypt: we are in college
Enter the shift value (1-25): 12
Encrypted message: iq mdq uz oaxxqsq
```

```
=== Code Execution Successful ===
```

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```
9      text[i] = (ch - base + k) % 26 + base;
10    }
11  int main() {
12    char message[1000];
13    int k;
14    printf("Enter a message to encrypt: ");
15    fgets(message, sizeof(message), stdin);
16    printf("Enter the shift value (1-25): ");
17    scanf("%d", &k);
18    if (k < 1 || k > 25) {
19      printf("Invalid shift value. Please enter a number between\n1 and 25.\n");
20      return 1;
21    }
22    encryptCaesar(message, k);
23    printf("Encrypted message: %s\n", message);
24    return 0;
25  }
26
```

Enter a message to encrypt: we are in college
Enter the shift value (1-25): 12
Encrypted message: iq mdq uz oaxxqsq

=== Code Execution Successful ===

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