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main.c

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```c
#include <stdio.h>
#include <string.h>
#include <ctype.h>
void encrypt(char *plaintext, int *key, char *ciphertext) {
    for (int i = 0; plaintext[i] != '\0'; i++) {
        if (isalpha(plaintext[i])) {
            char ch = tolower(plaintext[i]);
            ciphertext[i] = ((ch - 'a' + key[i]) % 26) + 'a';
        } else {
            ciphertext[i] = plaintext[i];
        }
    }
    ciphertext[strlen(plaintext)] = '\0';
}
void decrypt(char *ciphertext, int *key, char *plaintext) {
    for (int i = 0; ciphertext[i] != '\0'; i++) {
        if (isalpha(ciphertext[i])) {
            char ch = tolower(ciphertext[i]);
```

Output | Clear

```
Encrypted (a): beokjdmsxzpmh
Key for part (b): 9 9 11 16 11 12 16 11 22 5 15 20 4


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

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```
            char ch = tolower(ciphertext[i]);
            plaintext[i] = ((ch - 'a' - key[i] + 26) % 26) + 'a'
                ;
        } else {
            plaintext[i] = ciphertext[i];
        }
    }
    plaintext[strlen(ciphertext)] = '\0';
}
void derive_key(char *plaintext, char *ciphertext, int *key) {
    for (int i = 0; plaintext[i] != '\0'; i++) {
        if (isalpha(plaintext[i]) && isalpha(ciphertext[i])) {
            key[i] = (tolower(ciphertext[i]) - tolower
                (plaintext[i]) + 26) % 26;
        } else {
            key[i] = -1;
        }
```

Output | Clear

```
Encrypted (a): beokjdmsxzpmh
Key for part (b): 9 9 11 16 11 12 16 11 22 5 15 20 4


=== Code Execution Successful ===
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main.c

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```
    }
  }
}
int main() {
  char plaintext1[] = "sendmoremoney";
  int key1[] = {9, 0, 1, 7, 23, 15, 21, 14, 11, 11, 2, 8, 9};
  char ciphertext1[100];
  encrypt(plaintext1, key1, ciphertext1);
  printf("Encrypted (a): %s\n", ciphertext1);
  char ciphertext2[] = "ljdxyajyajsyh";
  char plaintext2[] = "cashnotneeded";
  int key2[100];
  derive_key(plaintext2, ciphertext2, key2);
  printf("Key for part (b): ");
  for (int i = 0; i < strlen(plaintext2); i++) {
    if (key2[i] != -1)
      printf("%d ", key2[i]);
    else
```

Output | Clear

```
Encrypted (a): beokjdmsxzpmh
Key for part (b): 9 9 11 16 11 12 16 11 22 5 15 20 4


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

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main.c

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```
37      int key1[] = {9, 0, 1, 7, 23, 15, 21, 14, 11, 11, 2, 8, 9};
38      char ciphertext1[100];
39      encrypt(plaintext1, key1, ciphertext1);
40      printf("Encrypted (a): %s\n", ciphertext1);
41      char ciphertext2[] = "ljdxyajyajsyh";
42      char plaintext2[] = "cashnotneeded";
43      int key2[100];
44      derive_key(plaintext2, ciphertext2, key2);
45      printf("Key for part (b): ");
46      for (int i = 0; i < strlen(plaintext2); i++) {
47          if (key2[i] != -1)
48              printf("%d ", key2[i]);
49          else
50              printf("  ");
51      }
52      printf("\n");
53      return 0;
```

Output | Clear

```
Encrypted (a): beokjdmsxzpmh
Key for part (b): 9 9 11 16 11 12 16 11 22 5 15 20 4


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

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