Programiz C Online Compiler

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main.c

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Output Clear

```c
#include <stdio.h>
#include <string.h>
#include <stdlib.h>

#define ALPHABET_SIZE 26
#define MAX_PLAINTEXTS 10

// Function to calculate letter frequency
void calculateFrequency(const char *ciphertext, int *frequency) {
    for (int i = 0; ciphertext[i] != '\0'; i++) {
        if (ciphertext[i] >= 'a' && ciphertext[i] <= 'z') {
            frequency[ciphertext[i] - 'a']++;
        }
    }
}

// Function to generate possible plaintexts (stub)
void generatePlaintexts(const char *ciphertext, int *frequency, char
    plaintexts[MAX_PLAINTEXTS][100]) {
    // Placeholder for actual decryption logic
    for (int i = 0; i < MAX_PLAINTEXTS; i++) {
        snprintf(plaintexts[i], 100, "Possible plaintext %d", i + 1);
    }
}

int main() {
```

```
Enter the ciphertext: HELLO
Top 10 possible plaintexts:
Possible plaintext 1
Possible plaintext 2
Possible plaintext 3
Possible plaintext 4
Possible plaintext 5
Possible plaintext 6
Possible plaintext 7
Possible plaintext 8
Possible plaintext 9
Possible plaintext 10


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