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Programiz C Online Compiler

Programiz PRO

```
main.c
14 }
15 }
16 }
17
18 void generatePlaintexts(const char *ciphertext, int *frequency, int topN) {
19     // Placeholder for generating and ranking possible plaintexts
20     // This function would implement the logic to substitute letters based on
21     // frequency
22     printf("Generating top %d possible plaintexts...\n", topN);
23     // Logic to generate and display plaintexts would go here.
24 }
25
26 int main() {
27     char ciphertext[MAX_TEXT_LENGTH];
28     int frequency[ALPHABET_SIZE] = {0};
29     int topN = 10; // Default to top 10
30
31     printf("Enter the ciphertext: ");
32     fgets(ciphertext, MAX_TEXT_LENGTH, stdin);
33
34     calculateFrequency(ciphertext, frequency);
35     generatePlaintexts(ciphertext, frequency, topN);
36
37     return 0;
38 }
```



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Output

```
* Enter the ciphertext: HELLO
Generating top 10 possible plaintexts...
```

```
===[Code Execution Successful]===[/Code Execution Successful]
```

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