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main.c   ⤢ ☼ ⤢ Share   Run   Output   Clear

```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
              frequency
21      printf("Generating top %d possible plaintexts...\n", topN);
22      // Logic to generate and display plaintexts would go here
23  }
24
25  int main() {
26      char ciphertext[MAX_TEXT_LENGTH];
27      int frequency[ALPHABET_SIZE] = {0};
28      int topN = 10; // Default to top 10
29
30      printf("Enter the ciphertext: ");
31      fgets(ciphertext, MAX_TEXT_LENGTH, stdin);
32
33      calculateFrequency(ciphertext, frequency);
34      generatePlaintexts(ciphertext, frequency, topN);
35
36      return 0;
37  }
38
```

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

=== Code Execution Successful ===