

```
main.c
21     }
22 }
23     plaintext[strlen(ciphertext)] = '\0';
24 }
25
26 void generatePlaintexts(const char *ciphertext, int topN) {
27     int frequency[ALPHABET_SIZE] = {0};
28     frequencyAnalysis(ciphertext, frequency);
29
30     // Assuming the most frequent letter in English is 'e'
31     int mostFrequentIndex = 4; // 'e' is the 5th letter (index 4)
32     for (int key = 0; key < ALPHABET_SIZE; key++) {
33         char plaintext[100];
34         decryptWithKey(ciphertext, (mostFrequentIndex - key + ALPHABET_SIZE) % ALPHABET_SIZE, plaintext);
35         printf("Possible plaintext with key %d: %s\n", key, plaintext);
36     }
37 }
38
39 int main() {
40     const char *ciphertext = "yourciphertexthere";
41     int topN = MAX_PLAINTEXTS; // User can specify this
42     generatePlaintexts(ciphertext, topN);
43     return 0;
44 }
```

\* Possible plaintext with key 0: ukqnyeldanpatpdana  
Possible plaintext with key 1: vlrozfmeboqbuebob  
Possible plaintext with key 2: wmspagnfcprcvrfpc  
Possible plaintext with key 3: xntqbhogdqsdwsgdq  
Possible plaintext with key 4: yourciphertexthere  
Possible plaintext with key 5: zpvsdjqihsufuyifsf  
Possible plaintext with key 6: aqwtekrjgtvgzvjtgc  
Possible plaintext with key 7: brxuflskhuhawkhuh  
Possible plaintext with key 8: csygmtlivxibxlivi  
Possible plaintext with key 9: dtzwlnumjwyjcymwj  
Possible plaintext with key 10: euaxiovnkxzkdznkk  
Possible plaintext with key 11: fvbyjpwolyaleaolyl  
Possible plaintext with key 12: gwczkxpmzbmfpbmzm  
Possible plaintext with key 13: hxdalrygnacngcqnan  
Possible plaintext with key 14: iyebszsrobdohdrobo  
Possible plaintext with key 15: jzfcntaspcepiespc  
Possible plaintext with key 16: kaggdoubtqdfqjftqdq  
Possible plaintext with key 17: lbhepcuregrkgurer  
Possible plaintext with key 18: mcifqwdvsfhslhvfs  
Possible plaintext with key 19: ndjgrxewtgitmwtgt  
Possible plaintext with key 20: oekhsyfxuhjunjxuhu  
Possible plaintext with key 21: pflitzgyvikvokyiv  
Possible plaintext with key 22: qgmjuahzwjwlplzwjw  
Possible plaintext with key 23: rhnkvbaxkmxqmaxkx  
Possible plaintext with key 24: siowlcjblynrnbyly  
Possible plaintext with key 25: tijpmxdkczmzsoczmz

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