

User's Guide

Description.

This application counts the frequency of each letter on a message. This program is useful for cryptanalysis.

Files enclosed for demonstration.

The folder containing this program in the repository, has a text file called Message1.txt. This text file can be used to demonstrate the functionality of the program

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In order to execute the program is necessary to compile and run it through command line. For executing it, it is necessary to input an argument through command line. This argument represents the name of the text file whose message will be analyzed by the letter frequency analysis.

Input example:

```
N BMJJQJI RD HFWY YTBFWI HZXYTRX FSI XFB RDXJQK UJ
WKJHYQD UWTKNQJI YMWZLZL YMJ HTRUZYJW'X JDX. XNQN
HTS RNSN-RNQNTSFNWJ, XYTHP TUYNTSX WJYNWJJ, QZHPD
NSMJWNYTW TK YMJ WJATQZYNTS UWTHQFNRJI TS YJQJANX
NTS GD YMJ BTRFS NS WZSSNSL XMTWYX.
```

Output example:

Input Message:

```
GQYOT NCQEO FYFES DRRME LEINQ RKRLR MTHMB HGTHN MNVRQ TFRKE
STTWN FUMAQ RAYRE QSART RGTHV RBHGT HNMFE SDRRM EOEQT HGUKE
QKYBR QTHKR CQNUM ABNQT FHSOK NTRKR LRMTS TEQTH MCWHT FRACE
QEKKE MONRS TFRCN KADUC
```

Table of Frequencies:

A 6
B 4
C 6
D 3
E 14

F 8
 G 5
 H 11
 I 1
 J 0
 K 10
 L 3
 M 11
 N 11
 O 5
 P 0
 Q 13
 R 22
 S 7
 T 18
 U 4
 V 2
 W 2
 X 0
 Y 4
 Z 0

Histogram of Frequencies

A XXXXXX
 B XXXX
 C XXXXXX
 D XXX
 E XXXXXXXXXXXXXXX
 F XXXXXXXX
 G XXXXX
 H XXXXXXXXXXXXX
 I X
 J
 K XXXXXXXXXXXX
 L XXX
 M XXXXXXXXXXXXX
 N XXXXXXXXXXXXX
 O XXXXX
 P
 Q XXXXXXXXXXXXXXX
 R XXXXXXXXXXXXXXXXXXXXXXX
 S XXXXXXX
 T XXXXXXXXXXXXXXXXXXXX

U XXXX
V XX
W XX
X
Y XXXX
Z