----- = User input

[dougherty@hopper Project 1]\$ g++ -std=c++11 decrypt.cpp

[dougherty@hopper Project 1]\$./a.out cipher.txt dic.txt -a

A:17

B:20

C:38

D:2

E:35

F:3

G:57

H:23

I:13

J:1

K:52

L:10

M:3

N:13

0:7

P:7

Q:30

R:7

S:61

T:1

U:38

V:3

W:3

X:8

Z:19

Your key:

PLAIN: ABCDEFGHIJKLMNOPQRSTUVWXYZ KEY: KMIZSOPHUDWALECFTBQGNVXJRY How many times each character appeared in a meaningful word: (If the character has a low frequency, consider switching it with another character of low frequency) A:78 C:8 D: 25 E:74 F:3 G:6 H:15 I:16 K:1 L:16 M:9 N:11 0:32 P:5 R:17 S:54 T:99 U:6 V:1 W:4 Y:1

Your Score: 140

Your decryption:

TREWIOTEDSTATESGASATMEALEGOTRTRATIATONIAIDATTRESNCOLOTATONINYKAMAIGASSTOCCOILNIV EHSATONIGOTROTSFNVEHIUEITAIDOTSEUMEHNHCNNJOIFTNGAHDTREUAOITEIAILENYMEALEOITREMAL OYOLOIDEEDNIERNWHAYTEHKAMAIESEAOHSQWADHNISRADLNUUEILEDPNUPOIFOINARWTREKAMAIES EAUPASSADNHTNTREWIOTEDSTATESAIDROSLNCCEAFWEDECOVEHEDTNTRESELHETAHBNYSTATEAYNHU ACHEMCBTNAHELEITAUEHOLAIUESSAFEGROCETROSHEMCBSTATEDTRATOTSEEUEDWSECESSTNLNITOI WETREEXOSTOIFDOMCNUATOLIEFNTOATONISOTLNITAOIEDINTRHEATNHROITNYGAHNHAHUEDATTALJ

What would you like to do next? type h and then Enter for options.

r

Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: R

CHAR2: H

KMIZSOPBUDWALECFTHQGNVXJRY

What would you like to do next? type h and then enter for options.

r

Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: W

CHAR2: U

KMIZSOPBUDWALECFTHQGXVNJRY

What would you like to do next? type h and then enter for options.

r

Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1:

CHAR2: N

KMIZSOPBEDWALUCFTHQGXVNJRY

What would you like to do next? type h and then enter for options.

r

Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: 0

CHAR2: I

KMIZSOPBCDWALUEFTHQGXVNJRY

What would you like to do next? type h and then enter for options.



Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: G

CHAR2: W

KMIZSONBCDWALUEFTHQGXVPJRY

What would you like to do next? type h and then enter for options.



Your new Key:

KMIZSONBCDWALUEFTHQGXVPJRY

How many times each character appeared in a meaningful word:

(If the character has a low frequency, consider switching it with another character of low frequency)

A:114

B:3

C:9

D:38

E:112

F:4

G:14

H:40

1:62

J:1

L:16

M:18

N:70

0:38

P:4

Q:3

R:30 S:81 T:145 U:13

V:1

W:12

X : 2

Y:4

Your Score: 235

Your decryption:

THEUNITEDSTATESWASATMEALEWITHTHATNATIONANDATTHESOCILITATIONOYKAMANWASSTICCINLO NVERSATIONWITHITSFOVERNGENTANDITSEGMERORCOOJINFTOWARDTHEGAINTENANLEOYMEALEINTH EMALIYILINDEEDONEHOURAYTERKAMANESEAIRSQUADRONSHADLOGGENLEDPOGPINFINOAHUTHEKAM ANESEAGPASSADORTOTHEUNITEDSTATESANDHISLOCCEAFUEDECIVEREDTOTHESELRETARBOYSTATEAYO RGACREMCBTOARELENTAGERILANGESSAFEWHICETHISREMCBSTATEDTHATITSEEGEDUSECESSTOLONTIN UETHEEXISTINFDIMCOGATILNEFOTIATIONSITLONTAINEDNOTHREATORHINTOYWARORARGEDATTALJ

What would you like to do next? type h and then enter for options.

r

Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: C

CHAR2: L

KMAZSONBCDWILUEFTHQGXVPJRY

What would you like to do next? type h and then enter for options.

r

Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: Y

CHAR2: F

KMAZSRNBCDWILUEFTHQGXVPJOY

What would you like to do next? type h and then enter for options.

n

Your new Key:

KMAZSRNBCDWILUEFTHQGXVPJOY

How many times each character appeared in a meaningful word:

(If the character has a low frequency, consider switching it with another character of low frequency)

A:121

B:1

C:21

D:40

E:124

F:6

G:14

H:39

I:78

J:1

L:27

M:16

N:80

0:40

P:6

Q:3

R:37

S:89

T:154

U:14

V:4

W:13

X:2

Y:8

Your Score: 257

Your decryption:

THEUNITEDSTATESWASATMEACEWITHTHATNATIONANDATTHESOLICITATIONOFKAMANWASSTILLINCON VERSATIONWITHITSYOVERNGENTANDITSEGMERORLOOJINYTOWARDTHEGAINTENANCEOFMEACEINTHE MACIFICINDEEDONEHOURAFTERKAMANESEAIRSQUADRONSHADCOGGENCEDPOGPINYINOAHUTHEKAM ANESEAGPASSADORTOTHEUNITEDSTATESANDHISCOLLEAYUEDELIVEREDTOTHESECRETARBOFSTATEAFO RGALREMLBTOARECENTAGERICANGESSAYEWHILETHISREMLBSTATEDTHATITSEEGEDUSELESSTOCONTIN UETHEEXISTINYDIMLOGATICNEYOTIATIONSITCONTAINEDNOTHREATORHINTOFWARORARGEDATTACJ

What would you like to do next? type h and then enter for options.



Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: M

CHAR2: P

KMAZSRNBCDWIFUELTHQGXVPJOY

What would you like to do next? type h and then enter for options.



Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: Y

CHAR2: G

KMAZSROBCDWIFUELTHQGXVPJNY

What would you like to do next? type h and then enter for options.



Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: G

CHAR2: M

KMAZSRFBCDWIOUELTHQGXVPJNY

What would you like to do next? type h and then enter for options.



Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: K

CHAR2: J

KMAZSRFBCWDIOUELTHQGXVPJNY

What would you like to do next? type h and then enter for options.



Your new Key:

KMAZSRFBCWDIOUELTHQGXVPJNY

How many times each character appeared in a meaningful word:

(If the character has a low frequency, consider switching it with another character of low frequency)



B:1

C:25

D:38

E:135

F:7

G:3

H:40

I:74

J:3

K:2

L:27

M:6

N:78

0:45

P:22

Q:3

R:40

S:83

T:152

U:15

V:6

W:13 X:2 Y:15

Your Score: 260

Your decryption:

THEUNITEDSTATESWASATPEACEWITHTHATNATIONANDATTHESOLICITATIONOFJAPANWASSTILLINCONV ERSATIONWITHITSMOVERNYENTANDITSEYPERORLOOKINMTOWARDTHEYAINTENANCEOFPEACEINTHEP ACIFICINDEEDONEHOURAFTERJAPANESEAIRSQUADRONSHADCOYYENCEDGOYGINMINOAHUTHEJAPANE SEAYGASSADORTOTHEUNITEDSTATESANDHISCOLLEAMUEDELIVEREDTOTHESECRETARBOFSTATEAFORYA LREPLBTOARECENTAYERICANYESSAMEWHILETHISREPLBSTATEDTHATITSEEYEDUSELESSTOCONTINUETHE EXISTINMDIPLOYATICNEMOTIATIONSITCONTAINEDNOTHREATORHINTOFWARORARYEDATTACK

What would you like to do next? type h and then enter for options.



Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: M

CHAR2: G

KMAZSROBCWDIFUELTHQGXVPJNY

What would you like to do next? type h and then enter for options.

r

Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: Y

CHAR2: M

KMAZSROBCWDINUELTHQGXVPJFY

What would you like to do next? type h and then enter for options.



Your new Key:

KMAZSROBCWDINUELTHQGXVPJFY

How many times each character appeared in a meaningful word:

(If the character has a low frequency, consider switching it with another character of low frequency)

A:132

B:1

C:24

D:43

E: 152

F:9

G:15

H:40

I:81

J:3

K:4

L:31

M: 26

N:84

0:49

P:23

Q:3

R:45

S:91

T:158

U:17

V:5

W:12

X:2

Y:3

Your Score: 278

Your decryption:

THEUNITEDSTATESWASATPEACEWITHTHATNATIONANDATTHESOLICITATIONOFJAPANWASSTILLINCONV ERSATIONWITHITSGOVERNMENTANDITSEMPERORLOOKINGTOWARDTHEMAINTENANCEOFPEACEINTHE PACIFICINDEEDONEHOURAFTERJAPANESEAIRSQUADRONSHADCOMMENCEDYOMYINGINOAHUTHEJAPA NESEAMYASSADORTOTHEUNITEDSTATESANDHISCOLLEAGUEDELIVEREDTOTHESECRETARBOFSTATEAFOR

MALREPLBTOARECENTAMERICANMESSAGEWHILETHISREPLBSTATEDTHATITSEEMEDUSELESSTOCONTIN UETHEEXISTINGDIPLOMATICNEGOTIATIONSITCONTAINEDNOTHREATORHINTOFWARORARMEDATTACK

What would you like to do next? type h and then enter for options.



Where (CHAR1) is in the current decrypted text, it should be (CHAR2) instead

CHAR1: Y

CHAR2: B

KFAZSROBCWDINUELTHQGXVPJMY

What would you like to do next? type h and then enter for options.



Your new Key:

KFAZSROBCWDINUELTHQGXVPJMY

How many times each character appeared in a meaningful word:

(If the character has a low frequency, consider switching it with another character of low frequency)

A:132

B:7

C:24

D:43

E:153

F:9

G:16

H:40

1:82

J:3

K:4

L:35

M: 26

N:85

O:50

P:27

Q:3

R:46

S:93

T:158

U:17

V:5

W:12

X:2

Y:4

Your Score: 283

Your decryption:

THEUNITEDSTATESWASATPEACEWITHTHATNATIONANDATTHESOLICITATIONOFJAPANWASSTILLINCONV ERSATIONWITHITSGOVERNMENTANDITSEMPERORLOOKINGTOWARDTHEMAINTENANCEOFPEACEINTHE PACIFICINDEEDONEHOURAFTERJAPANESEAIRSQUADRONSHADCOMMENCEDBOMBINGINOAHUTHEJAPA NESEAMBASSADORTOTHEUNITEDSTATESANDHISCOLLEAGUEDELIVEREDTOTHESECRETARYOFSTATEAFOR MALREPLYTOARECENTAMERICANMESSAGEWHILETHISREPLYSTATEDTHATITSEEMEDUSELESSTOCONTINU ETHEEXISTINGDIPLOMATICNEGOTIATIONSITCONTAINEDNOTHREATORHINTOFWARORARMEDATTACK

What would you like to do next? type h and then enter for options.



Thank you! Have a nice day!