Lab 3

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To compile, run the **make** command with the accompanying Makefile.

```
PS G:\Cal U\Fall 2022\cet440\Labs\Lab3> ./lab3
Enter text to encipher: hello hello
0!NN4h0!NN4
[ ,h] [!,~] [",g] [#,y] [$,q] [%,|] [&,7] [',u]
[(,&] [),;] [*,A] [+,2] [,,K] [-,6] [.,+] [/,M]
[0,j] [1,Q] [2,P] [3,3] [4,X] [5,9] [6,-] [7,_]
[8,F] [9,O] [:,:] [;,S] [<,{] [=,Z] [>,o] [?,E]
[@, ] [A,v] [B,(] [C,[] [D,d] [E,I] [F,e] [G,l]
[H,m] [I,B] [J,c] [K,z] [L,a] [M,.] [N,D] [O,%]
[P,/] [Q,t] [R,r] [S,5] [T,=] [U,1] [V,k] [W,V]
[X,p] [Y,}] [Z,W] [[,>] [\,*] [],C] [^,s] [_,T]
[`,?] [a,#] [b,"] [c,x] [d,Y] [e,!] [f,'] [g,)]
[h,0] [i,n] [j,]] [k,,] [l,N] [m,G] [n,J] [o,4]
[p,^] [q,R] [r,H] [s,w] [t,i] [u,@] [v,\] [w,U]
[x,$] [y,`] [z,L] [{,<] [|,f] [},b] [~,8]
```

cipher.h

```
1 int * getCipher();
2 void encipher(char* input, int* cipher);
3 void printCipher(int* cipher);
```

cipher.c

```
1 \\ Initializes and scrambles a Cipher
2 int * getCipher();
3
4 \\ Enciphers the input text inplace using the given cipher
5 void encipher(char* input, int* cipher);
6
7 \\ Prints the cipher key to console
8 void printCipher(int* cipher);
```

lab3.c

```
1 void main();
2 \\ Utilizes getCipher() from cipher.c to acquire a randomized substitution cipher key
3 \\ Utilizes encipher() from cipher.c to encipher input text from the user
4 \\ Utilizes printCipher() to print the cipher key to the console
```

Contributions

Distint Howie	Input Logic, Cipher Logic, Testing
Robert Krency	Cipher Logic, Testing, Accompanying Documentation
Anthony Stepich	Input Logic, Cipher Logic, Testing