

Press ? for help

(up a dir)  
src/  
cesar.cpp  
cesar.h  
cesarcypher.make  
Makefile  
premake5.lua

```
1 #ifndef CESAR_H_
2 #define CESAR_H_
3
4 #include <iostream>
5 #include <cctype>
6 #include <string>
7
8 std::string encrypt(std::string phrase, int key)
9 {
10     for(int i = 0; i <= phrase.length(); i++)
11     {
12         if(std::isalpha(phrase[i]))
13         {
14             phrase[i] = std::tolower(phrase[i]);
15             for(int j = 0; j < key; j++)
16             {
17                 if(phrase[i] == 'z')
18                     phrase[i] = 'a';
19                 else
20                     phrase[i]++;
21             }
22         }
23     }
24     return phrase;
25 }
26
27 std::string decrypt(std::string phrase)
28 {
29     for(int i = 1; i < 26; i++)
30     {
31         for(int j = 0; j < phrase.length(); j++)
32         {
33             if(std::isalpha(phrase[j]))
34             {
35                 if(phrase[j] == 'z')
36                     phrase[j] = 'a';
37                 else
38                     phrase[j] = phrase[j] + i;
39             }
40         }
41     }
42     std::cout << phrase << std::endl;
43 }
44 return phrase;
45 }
46
47 #endif
```

```
p a dir)
/  
sar.cpp  
sar.h  
sarCypher.make  
efile  
make5.lua
```

```
3  
4 int main(int argc, char **argv)  
5 {  
6     std::string input;  
7     std::cout << "Enter phrase: ";  
8     std::cin >> input;  
9  
10    std::string einput = encrypt(input, 2);  
11    std::cout << "Encrypted: " << einput << std::endl;  
12  
13    // TODO: This is for testing, not working at the moment  
14    std::string dinput = decrypt(einput);  
15    std::cout << "Decrypted: " << dinput << std::endl;  
16  
17  
18  
19    std::cin.get();  
20    return 0;  
21 }
```