NS LAB 1 CIESER CIPHER

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```
#include <iostream>
#include <string.h>
using namespace std;
char encrypt(char c,int k){
	char temp;
	if(c >= 'a' && c <= 'z'){
		temp = c + k;
		if( temp > 'z' ){
			temp = 'a' + temp - 'z' - 1;
		}
	}else if (c >= 'A' && c <='Z'){
		temp = c + k;
		if( temp > 'Z' ){
			temp = 'A' + temp - 'Z' - 1;
		}
	}else{
		temp = c + k;
	}
	return temp;
}
void encrpt_st(char *data, char  *enc , int key){
	int	i,len = strlen(data);
	key = key % 26;
	for( i = 0; i < len; ++i){
		enc[i] =  ( data[i] == ' ' ? data[i] :encrypt(data[i],key) );
	}
	enc[i]='\0';
}
int main(){
	int key,i;
	char data[1000],enc[1000];
	cin.getline( data,1000,'\n');
	cin >> key;
	encrpt_st(data,enc,key);
	cout << enc;
	i = 0;
	int test = 0;
	while( enc[i] == ' '){
		test++;
		i++;	}
	for( i = 0; i < 26; ++i){
		if( enc[test] == encrypt( data[test] , i) ){
			cout << "\nKEY FOUND: " << i << "\n";
			break;
		}
	}
	return 0;	}
```

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OUTPUT

```
bhushan@bhushan-desktop:~/BELab/NS$ ./c
BHUSHAN SONAWANE BE E 66
3
EKXVKDQ VRQDZDQH EH H 99
KEY FOUND: 3


bhushan@bhushan-desktop:~/BELab/NS$ ./c
aaaaa bbbbbbbbb eeeeeee xxxxx yyyyy zzzzzz
5
fffff ggggggggg jjjjjjj ccccc ddddd eeeeee
KEY FOUND: 5
```