Strings, Lists, & Recursion

Example Output

>>> everyOther("123456789")
13579

>>> everyOther("This is a string.")
Ti sasrn.

>>> everyOtherrecurse("123456789")
13579

>>> everyOtherrecurse("This is a string.")
Ti sasrn.

>>> reverse("123456789")
987654321

>>> reverse("reveseme")
emesever

>>> reverserecurse("123456789")
987654321

>>> reverserecurse("reveseme")
emesever

>>> countMatches('zz', 'abracadabrazz')
1

>>> countMatches('z', 'abracadabrazz')
2

>>> countMatchesrecurse('zz', 'abracadabrazz')
1

>>> countMatchesrecurse('z', 'abracadabrazz')
2

>>> capAlternateWord("This is a long sentence!")
THIS is A long SENTENCE!

>>>capAlternateWord('i wish i could control my volume')
I wish I could CONTROL my VOLUME

>>>capAlternateWordrecurse('This is a long sentence!')
THIS is A long SENTENCE!

>>>capAlternateWordrecurse('i wish i could control my volume')
I wish I could CONTROL my VOLUME

>>>scrambleSentence("This is a long sentence!")
long sentence! a is This

>>>scrambleSentence("This is a long sentence!")
sentence! a is long This

>>>scrambleSentence2("This is a long sentence!")
This sentence! a is long

>>>scrambleSentence2("This is a long sentence!")
a This sentence! is long

>>>scrambleSentencerecurse("This is a long sentence!")
This sentence! long a is

>>>scrambleSentencerecurse("This is a long sentence!")
This long sentence! a is

>>>crazyEncode("this will be encoded so you cant read it",0.1)
7#Is Wil] be 3ncoded so you cant Re@d It

>>>crazyEncode("this will be encoded so you cant read it",0.9)
7#i$ Wi]] B3 3NC0%3% $0 Y0U C@N7 R3@% I7

>>>crazyEncoderecurse("this will be encoded so you cant read it",0.1)
t#is will b3 enc0ded $o y0U cant read It

>>>crazyEncoderecurse("this will be encoded so you cant read it",0.9)
t#is will b3 enc0ded $o y0U cant read It

>>>crazyDecoderecurse("this will be encoded so you cant read it",0.9)
7#i$ Wi]] B3 3Nco%3% $o y0u c@N7 R3@% I7

>>>crazyDecode("7#i$ Wi]] B3 3Nco%3% $0 y0u c@N7 R3@% I7")
this will be encoded so you cant read it

>>>crazyDecode("7#i$ l$ @ $eCR3t M3$$@G3")
this is a secret message
>>>crazyDecoderecurse("7#I$ Wl]j B3 3Nco%3% $0 y0u c@N7 R3@% l7")
this will be encoded so you cant read it

>>>crazyDecoderecurse("7#I$ 1$ @ $eCR3t M3$@G3")
this is a secret message

>>>caesarEncode("This is a encoded message",5)
Ymnx nx f jshtiji rjxxflj

>>>caesarDecode("Ymnx nx f jshtiji rjxxflj",5)
This is a encoded message

>>>caesarEncoderecurse("This is a encoded message",5)
Ymnx nx f jshtiji rjxxflj

>>>caesarDecoderecurse("Ymnx nx f jshtiji rjxxflj",5)
This is a encoded message

>>>caesarEncode("Will this work correctly?",17)
Nzcc kyzj nfib tjiivtkcp?

>>>caesarDecode("Nzcc kyzj nfib tjiivtkcp?",17)
Will this work correctly?

>>>caesarEncoderecurse("Will this work correctly?",17)
Nzcc kyzj nfib tjiivtkcp?

>>>caesarDecoderecurse("Nzcc kyzj nfib tjiivtkcp?",17)
Will this work correctly?