1. Introduction

First of all the text which is given in the assignment will be written as ASCI characters and each character will be encoded as a two digit decimal number. It can be big number. After that we take square root from big number which is made from given text in the assignment and round it to the smallest integer. It will reduce the length of the big number about twice.

But some numbers squaring back its reduced number will not yield the initial number. So we save the difference between initial number and squared back result. For ideal numbers the difference will be zero. Then we take square root from the reduced number and save the new difference again. And this operation will continue until we get the number one. After the last operation we will encode all saved differences using dice.

2. Sample text encoding

inputText:

"Koremo_ReiBun_desu.0_Kara_9_Madeno_Siya_Nadyo"

encodedText:

"4322, 231, 34, 2, 34, 3"

3. Sample text decoding

encodedText:

"4322, 231, 34, 2, 34, 3"

decodedText:

"Koremo_ReiBun_desu.0_Kara_9_Madeno_Siya_Nadyo"