**Table of Test Results:**

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Input Word Expected Encoded Word Encoded Word Expected Decoded Word Decoded Word Pass?

ABCDEFGHIJKLMNOPQRSTUVWXYZ CDEFGHIJKLMNOPQRSTUVWXYZAB CDEFGHIJKLMNOPQRSTUVWXYZAB ABCDEFGHIJKLMNOPQRSTUVWXYZ ABCDEFGHIJKLMNOPQRSTUVWXYZ Passed

abcdefghijklmnopqrstuvwxyz cdefghijklmnopqrstuvwxyzab cdefghijklmnopqrstuvwxyzab abcdefghijklmnopqrstuvwxyz abcdefghijklmnopqrstuvwxyz Passed

0123456789 2345678901 2345678901 0123456789 0123456789 Passed

ABCDEFGHIJKLMnopqrstuvwxyz CDEFGHIJKLMNOpqrstuvwxyzab CDEFGHIJKLMNOpqrstuvwxyzab ABCDEFGHIJKLMnopqrstuvwxyz ABCDEFGHIJKLMnopqrstuvwxyz Passed

abc012 cde234 cde234 abc012 abc012 Passed

!,.?'[]{}()<> !,.?'[]{}()<> !,.?'[]{}()<> !,.?'[]{}()<> !,.?'[]{}()<> Passed

Passed

AZaz09 CBcb21 CBcb21 AZaz09 AZaz09 Passed

abcXYZ012789.!? cdeZAB234901.!? cdeZAB234901.!? abcXYZ012789.!? abcXYZ012789.!? Passed

A Z C B C B A Z A Z Passed

a z c b c b a z a z Passed

abc xyz cde zab cde zab abc xyz abc xyz Passed

123+123=123+123 345+345=345+345 345+345=345+345 123+123=123+123 123+123=123+123 Passed

567 MNO mno 789 OPQ opq 789 OPQ opq 567 MNO mno 567 MNO mno Passed

a,b,c,A,B,C,1,2,3 c,d,e,C,D,E,3,4,5 c,d,e,C,D,E,3,4,5 a,b,c,A,B,C,1,2,3 a,b,c,A,B,C,1,2,3 Passed

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All Tests Passed