

n = 5, len(sequence) = 100

desired sequence:

TTTTGGGGCCCCGGGGTTTTCCCCAAAATTTTGGGGTTTTGGGGCCCCGGGGTTTTTTTTGGGGCCCC
GGGGTTTTCCCCAAAATTTTGGGGTTTTGGGG

actual sequence:

TTTTGGGGCCCCGGGGTGTTCCCCAAAATTTTGGGGTATTGGGGCCCCCGGGGTTTTTTTTGGGGCCCC
GGGGTTTTCCCCAAAATTCTGGGGTTTTGGGG

num mismatch: 4

corrected:

TTTTGGGGCCCCGGGGATTTCCCCAAAATTTTGGGGTTTTGGGGCCCCGGGGTTTTTTTTGGGGCCCC
GGGGTTTTCCCCAAAATTTTGGGGTTTTGGGG

num mismatch: 1

n = 50, len(sequence) = 100

desired sequence:

TTTTGGGGCCCCGGGGTTTTCCCCAAAATTTTGGGGTTTTGGGGCCCCGGGGTTTTTTTTGGGGCCCC
GGGGTTTTCCCCAAAATTTTGGGGTTTTGGGG

actual sequence:

TTTTGGGACCCCGGGGTTTTCCCCAAAATTTTGGGGTTTTGGGGCCCCGGGGTCTTATTTGGGGCCCC
GGGGTTTTCCCCAAAATTACGGAGTATTGGGG

num mismatch: 7

corrected:

TTTTGGGGCCCCGGGGTTTTCCCCAAAATTTTGGGGTTTTGGGGCCCCGGGGTTTTTTTTGGGGCCCC
GGGGTTTTCCCCAAAATTTTGGGGTTTTGGGG

num mismatch: 0

n = 100, len(sequence) = 100

desired sequence:

TTTTGGGGCCCCGGGGTTTTCCCCAAAATTTTGGGGTTTTGGGGCCCCGGGGTTTTTTTTGGGGCCCC
GGGGTTTTCCCCAAAATTTTGGGGTTTTGGGG

actual sequence:

TTATGGGGCCCCGGGGTTTTCCCCAAAATTTTGGGGCATTGGGGCCCCGGGGTTTTTTTTGGGGCCCC
GGGGTTTTCCCCAAAATTTTGGGGTTATGGGG

num mismatch: 5

corrected:

TTTTGGGGCCCCGGGGTTTTCCCCAAAATTTTGGGGTTTTGGGGCCCCGGGGTTTTTTTTGGGGCCCC
GGGGTTTTCCCCAAAATTTTGGGGTTTTGGGG

num mismatch: 0