

## Huffman Encoding

1. You are a spy who has uncovered an enemy message, you know that they are using Huffman encoding to encrypt their message, with the following distributions:

A = 20%

C = 5%

E = 35%

K = 10%

N = 25%

T = 5%

Through another spy, you have learned that the enemy has encoded the letter 'c' as 0011 and 'n' as 10.

Decode the following message:

01001000100100110000100100010110

## RLE

1. Encode the following strings using RLE:

i) 0

ii) 1110000001101000000000

iii) 11

(which were compressed)

2. Decode the following strings ↓ using RLE:

i) 1100010010011111

ii) 011

3. Is it possible for an encoded RLE string to end in '0'?