

Huffman Encoding

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- A handwritten binary tree diagram for the word "KATE". The root node has two children: 0 and 1. The 0 child has two children: 0 and 1. The 1 child has two children: 0 and 1. The 0 child of the root's 0 child has two children: 0 and 1. The 1 child of the root's 0 child has two children: 0 and 1. The 0 child of the root's 1 child has two children: 0 and 1. The 1 child of the root's 1 child has two children: 0 and 1. The leaf nodes are labeled K, T, A, N, E, and C.
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graph TD
 Root(()) --- 0_1[0]
 Root --- 1_1[1]
 0_1 --- 0_0[0]
 0_1 --- 1_0[1]
 1_1 --- 0_2[0]
 1_1 --- 1_2[1]
 0_0 --- 0_2_0[0]
 0_0 --- 1_2_0[1]
 1_0 --- 0_2_1[0]
 1_0 --- 1_2_1[1]
 0_2_0 --- K[K]
 1_2_0 --- T[T]
 0_2_1 --- A[A]
 1_2_1 --- N[N]
 0_2_2[0] --- E[E]
 1_2_2[1] --- C[C]

```

RLE

3. Yes, 11 encoder as 1010, which ends in 0.