



$$A'' - 0$$

To we used sixed 3 bit encoding

then space = 116x3+7x8+7x3

= 425 bit

encoding space = 300 bit

$$-10)$$

$$+able space = 7x8+23$$

$$-110)$$

$$= 79bit$$

In Huffman coding we pick two smallest.

In friquency symbol and make a new node thus

they are placed deeper in the troes. So the

symbol that occurs the most has less bit.

We ensure local optimal decision which results

in global optimal presix.

1. 1. 11 mil 10005, "

1. Character State of the state

Huffman algorithm only care about the frequency.

Placement of same frequency nodes doesn't effect as tree ensures minimum average code length. Both of them will create equal optimal codes.

No.2

$$a = 2$$

 $b = 5$
 $c = 4$
 $d = 2$

$$\lambda = 2$$





