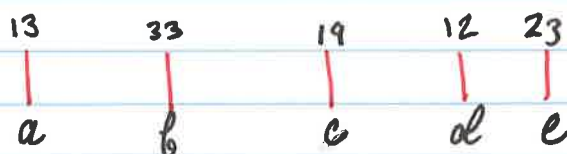


# huffman codes

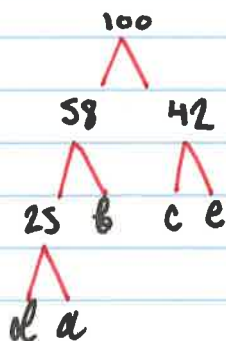
c	P(c)	code	l
a	.13	001	3
b	.33	01	2
c	.19	10	2
d	.12	0000	3
e	.23	11	2



• • • COMBINE SMALLEST TWO • • •



• • • REPEAT • • •



LEFT - 0  
RIGHT - 1

ENCODING:  $\overbrace{000}^d$   $\overbrace{001}^a$   $\overbrace{01}^b$   $\overbrace{10}^c$   $\overbrace{11}^e$

- AVERAGE LENGTH CALCULATED BY  $P(c) \times l$
- LETTERS ARE ONLY LEAVES WHICH MEANS NO CODE IS A PREFIX FOR ANOTHER