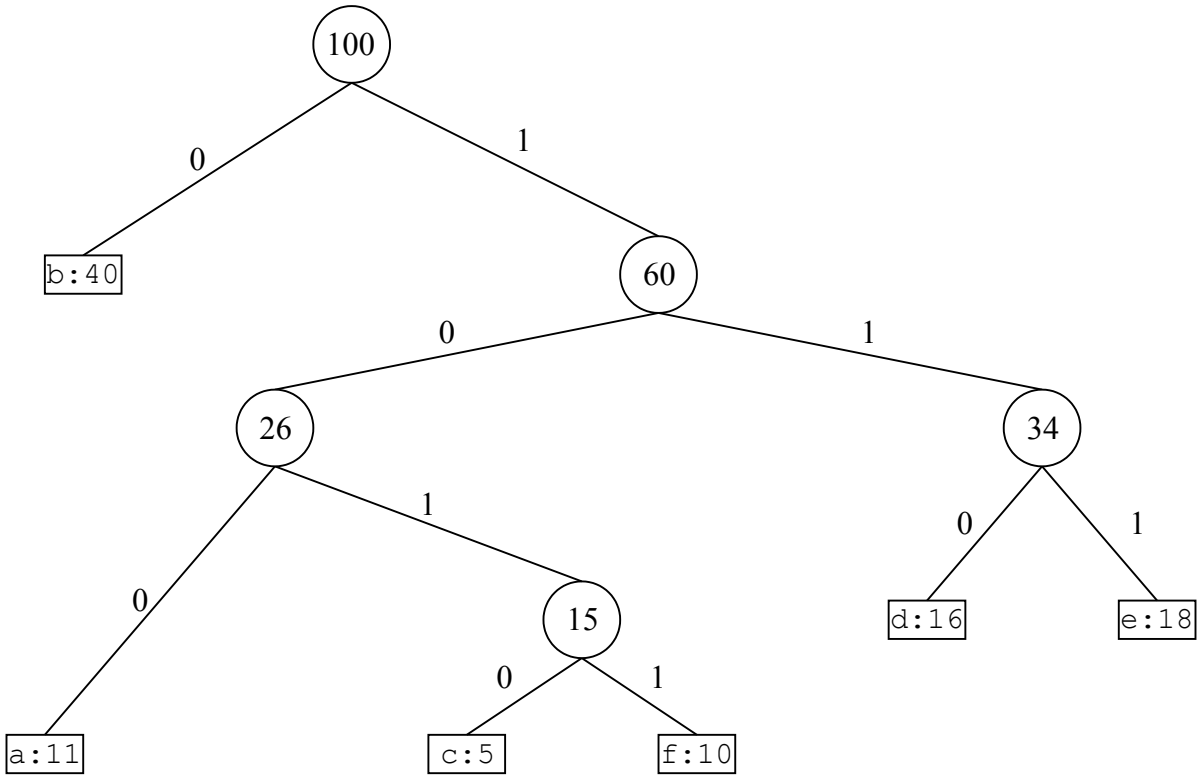
2) a:11, b:40, c:5, d:16, e:18, f:10



Letter	Value	Frequency	Total Bits
a	100	11	33
b	0	40	40
c	1010	5	20
d	110	16	48
e	111	18	54
f	1011	10	40

Coding Type	Total Bits
Huffman Coding	235
Fixed-Length Coding	300

10101000 = C A B

Compression Ratio: 235 / 300 = 0.783333... = 78%