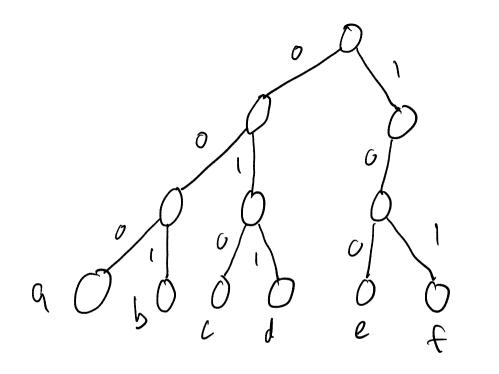
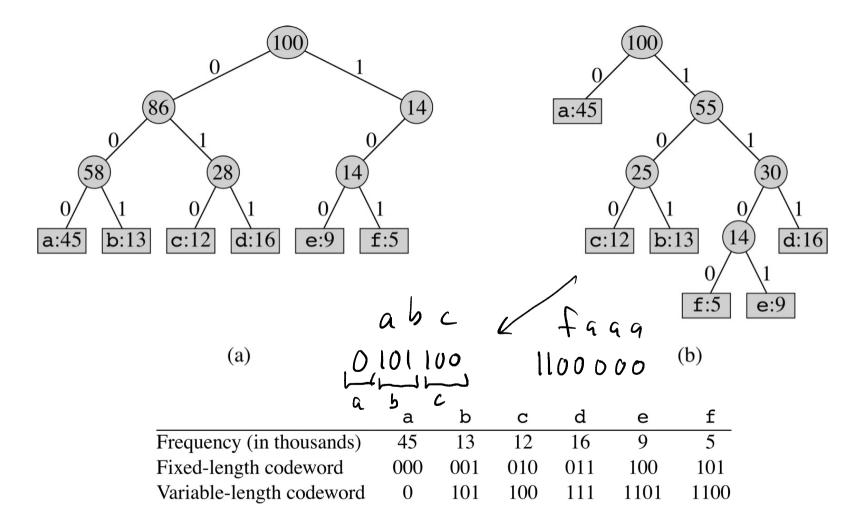
Binary String Eucoding

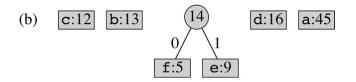
- a 000
- b ool 110 and 111 are linused, but 2
- c 010 bits is not enough
- 9 011
- e 100 ASCII uses 8 bits f 101

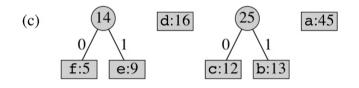


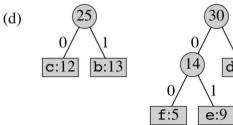
abc 000001010 ____ 6 C 9

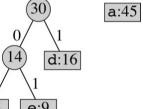




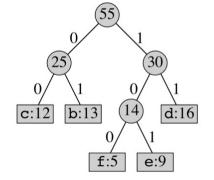








(e) a:45



(f) 100a:45 55 0 1 25 30 0 1 0 1 c:12 b:13 14 d:16 0 1 f:5 e:9

વક C is a set containing the character and ther frequencies objects HUFFMAN(C)

4 allocate a new node z
5
$$z.left = x = EXTRACT-MIN(Q) \theta(l_9 u)$$

6
$$z.right = y = EXTRACT-MIN(Q) \Theta(z, n)$$

 $\Theta(l_{9} n)$

$$z.freq = x.freq + y.freq$$

8 INSERT
$$(Q, z)$$

f(1, n)**return** EXTRACT-MIN(*Q*) // return the root of the tree 9

whole this is
$$\theta(n \mid g \mid n$$