

Binary Search Tree

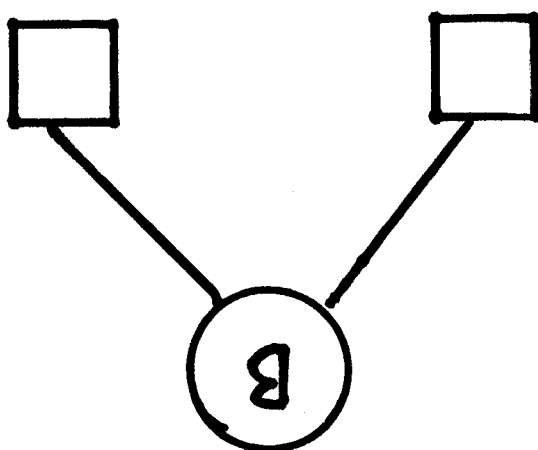
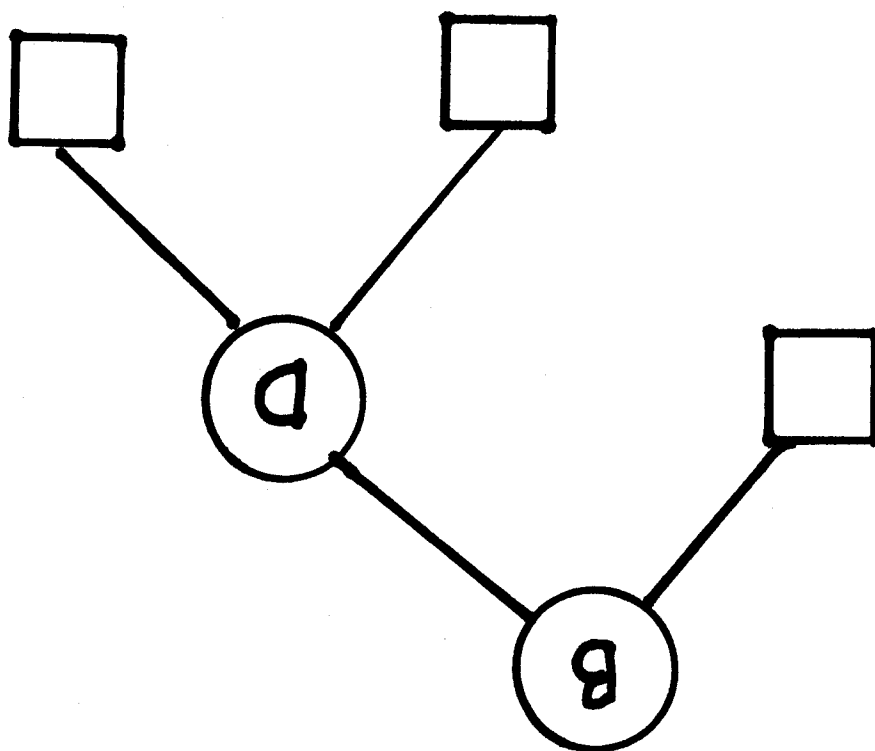
Apple, Banana, Corn,

date, egg

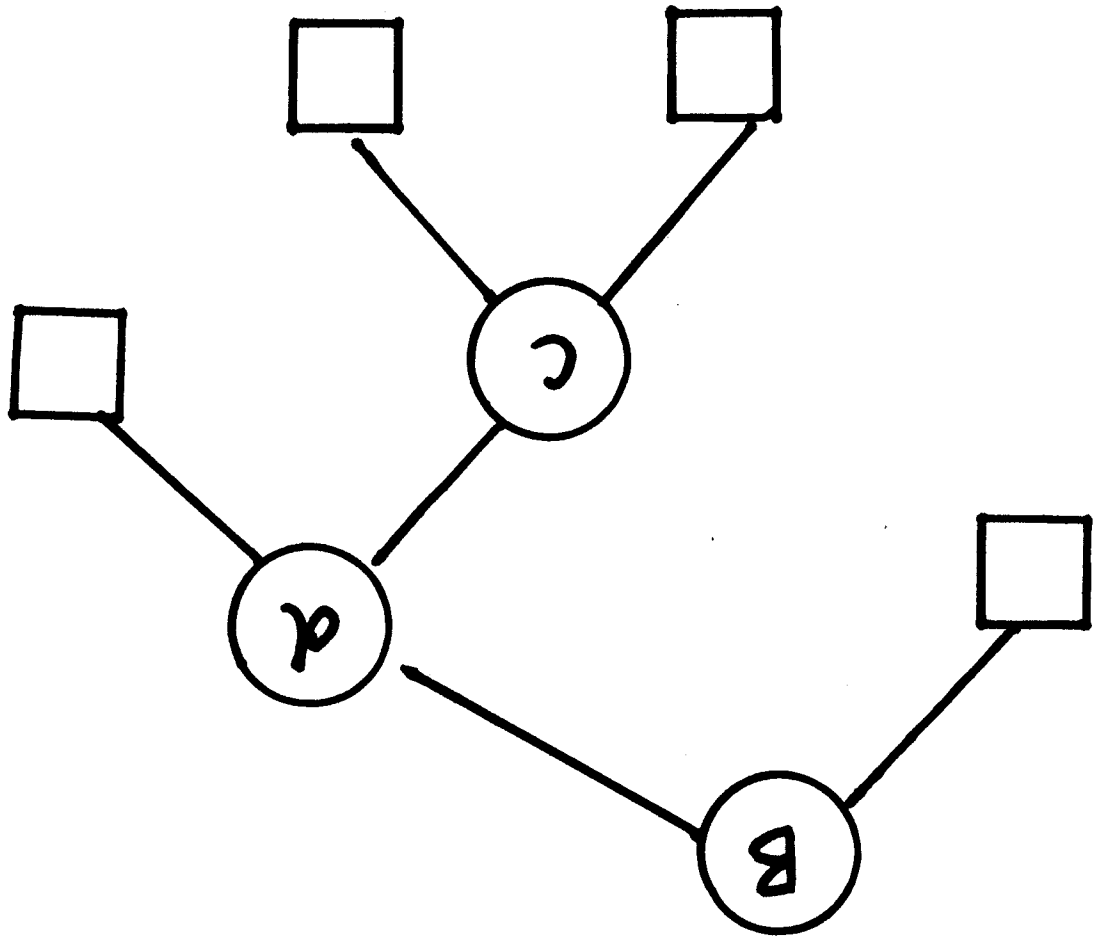
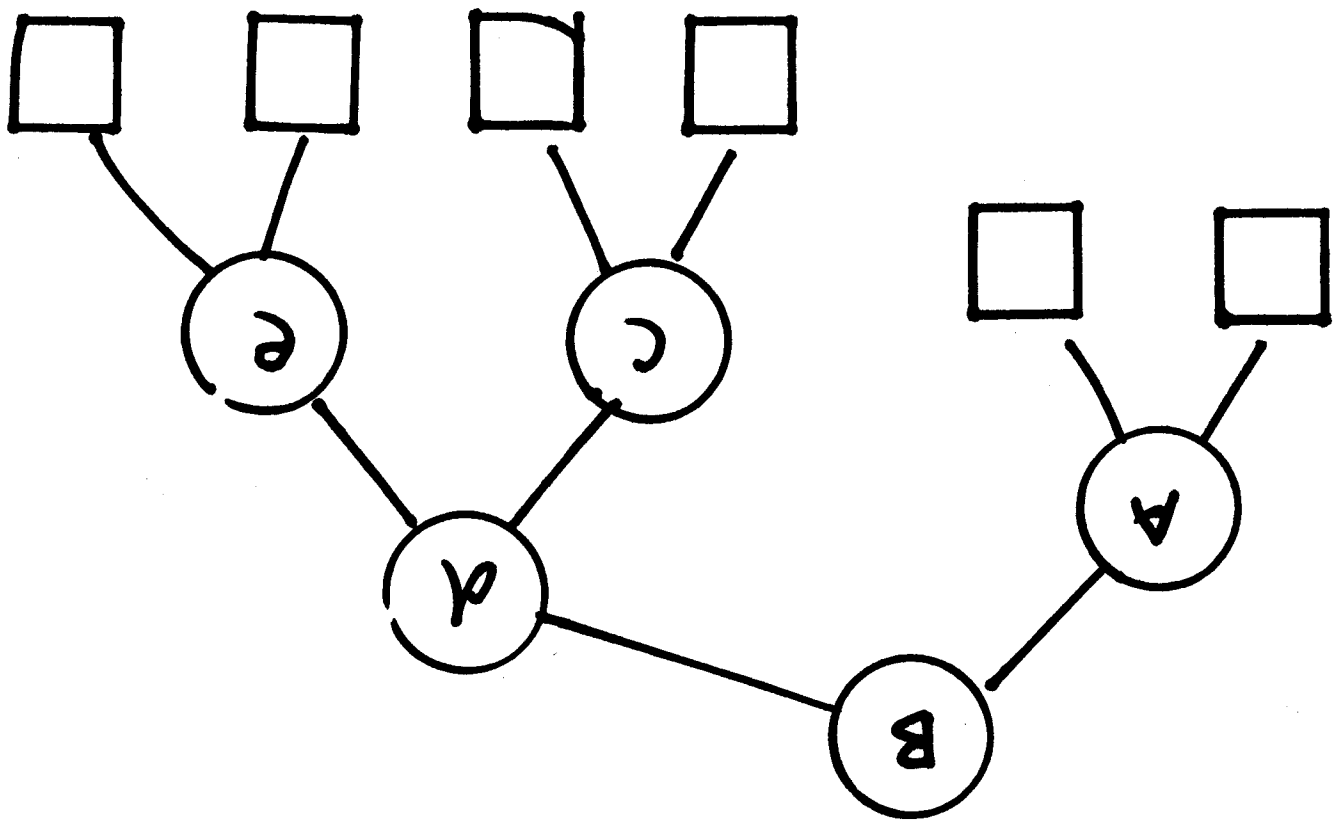
Construction by modifying

2/24/16

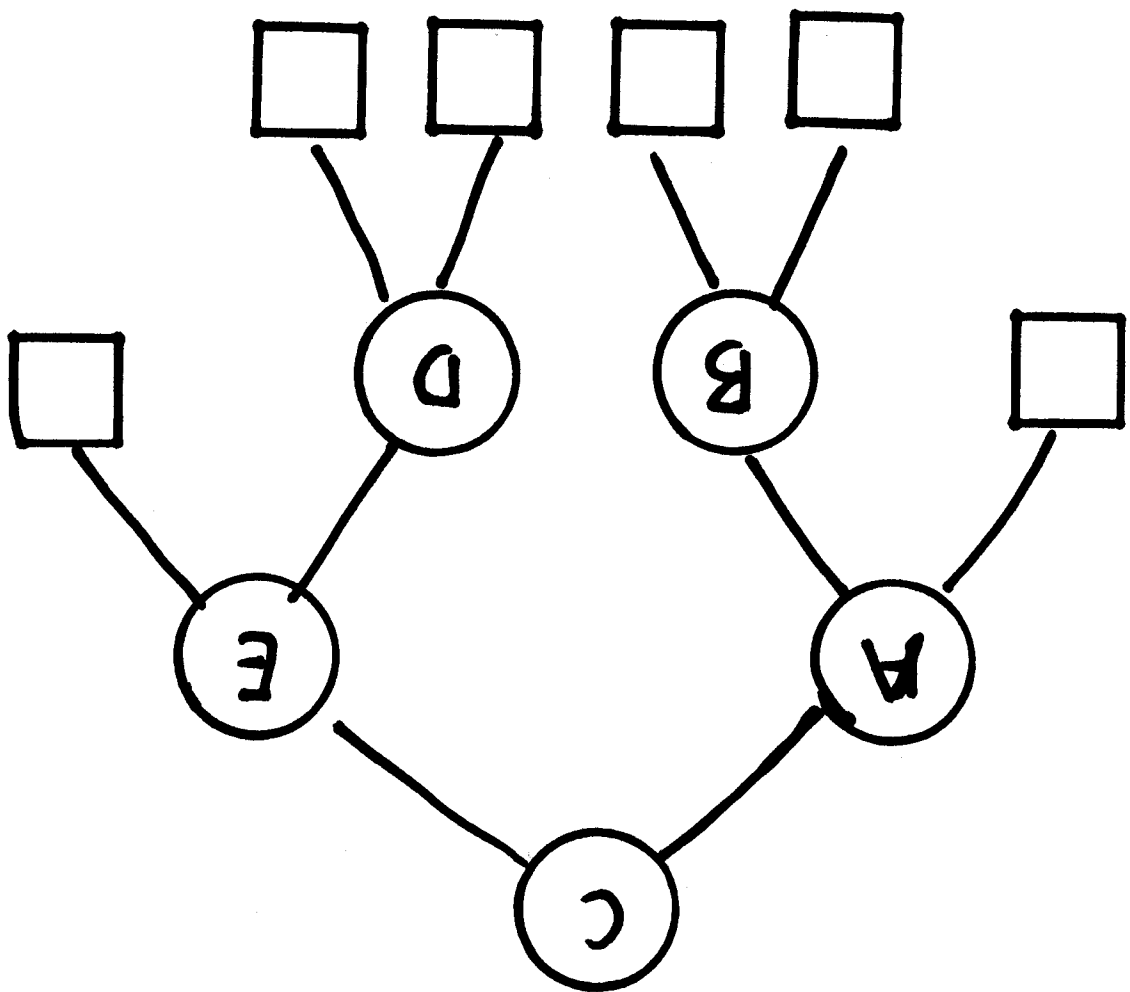
7. - 21-4/2



2
9-5



4-16-5



Optimum binary search tree

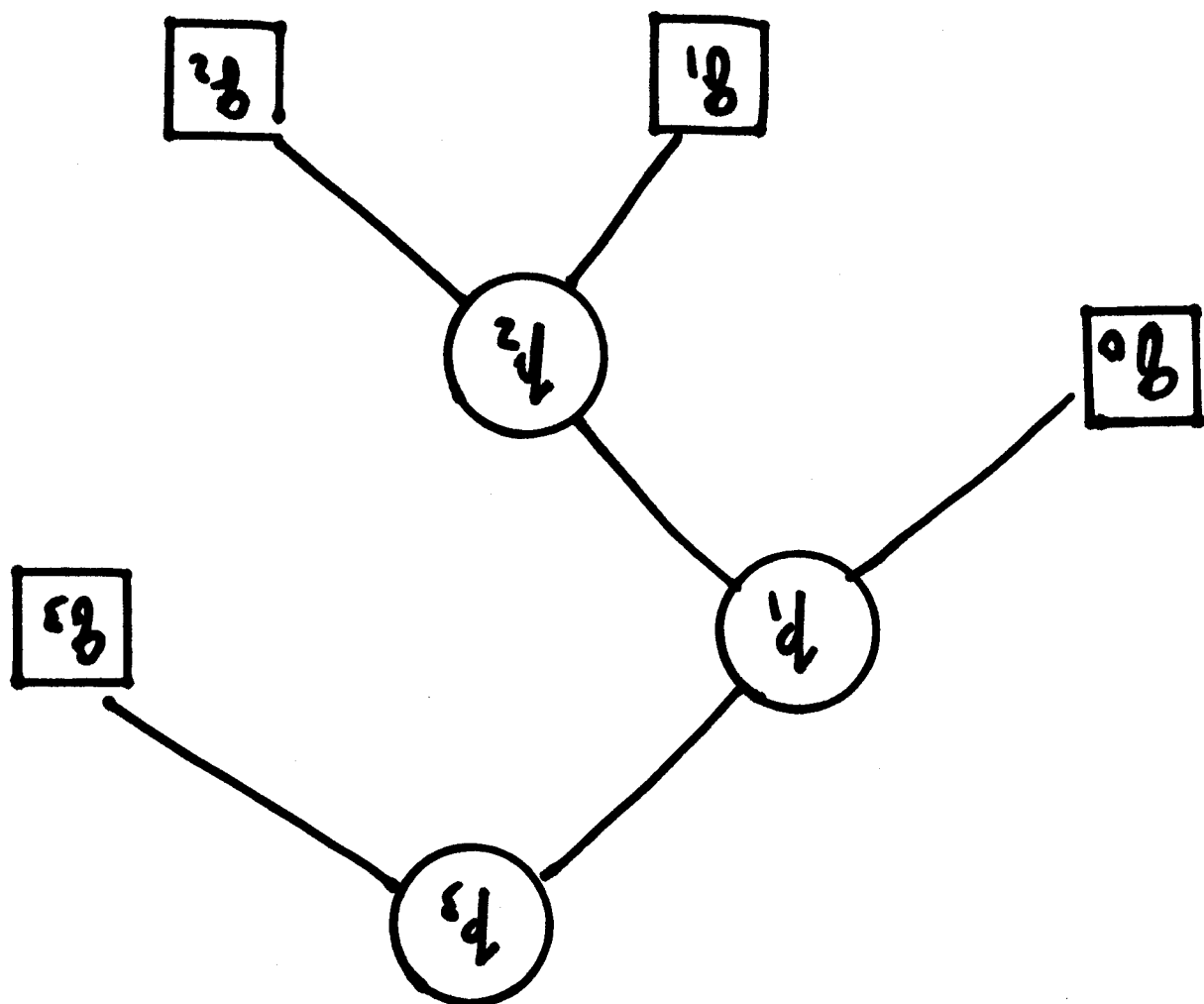
for keys with fixed frequencies

successful $\odot$

unsuccessful $\square$

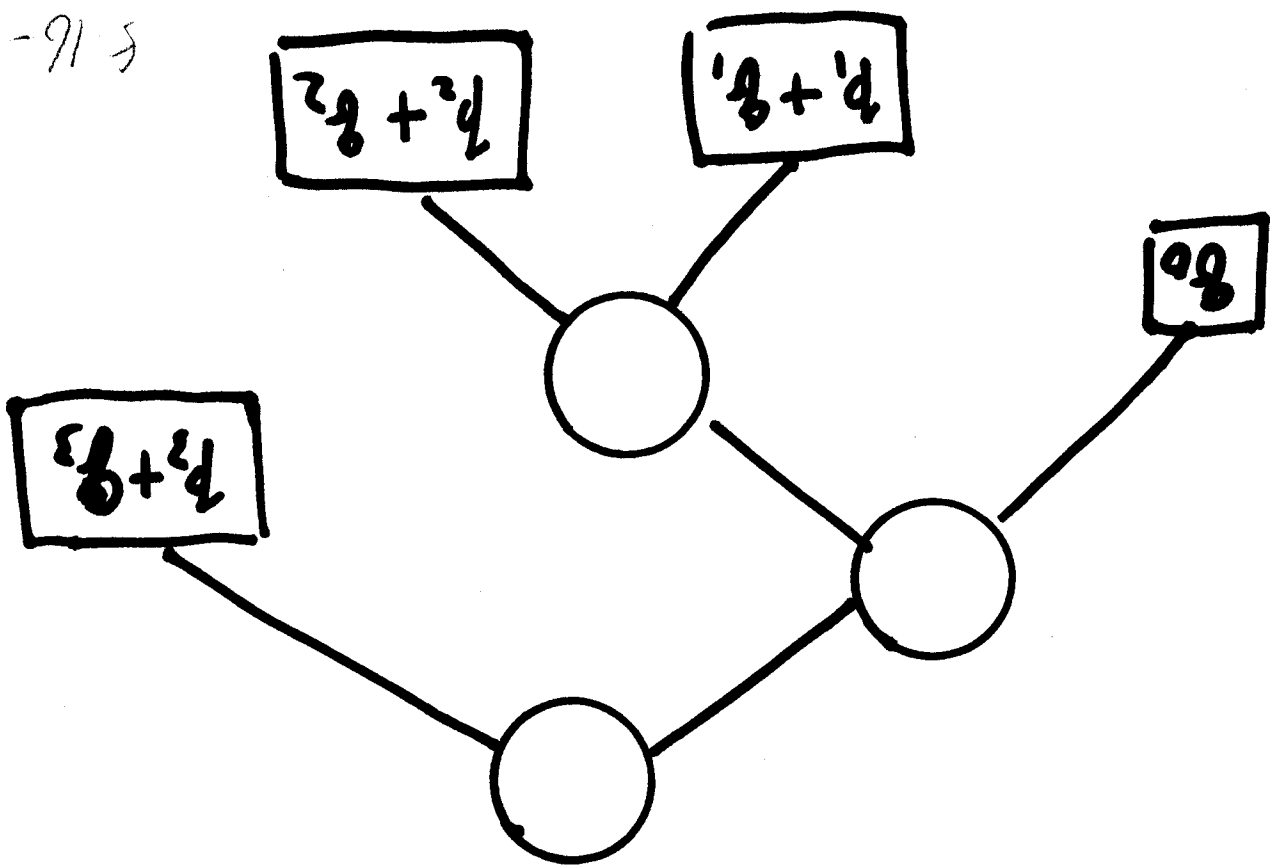
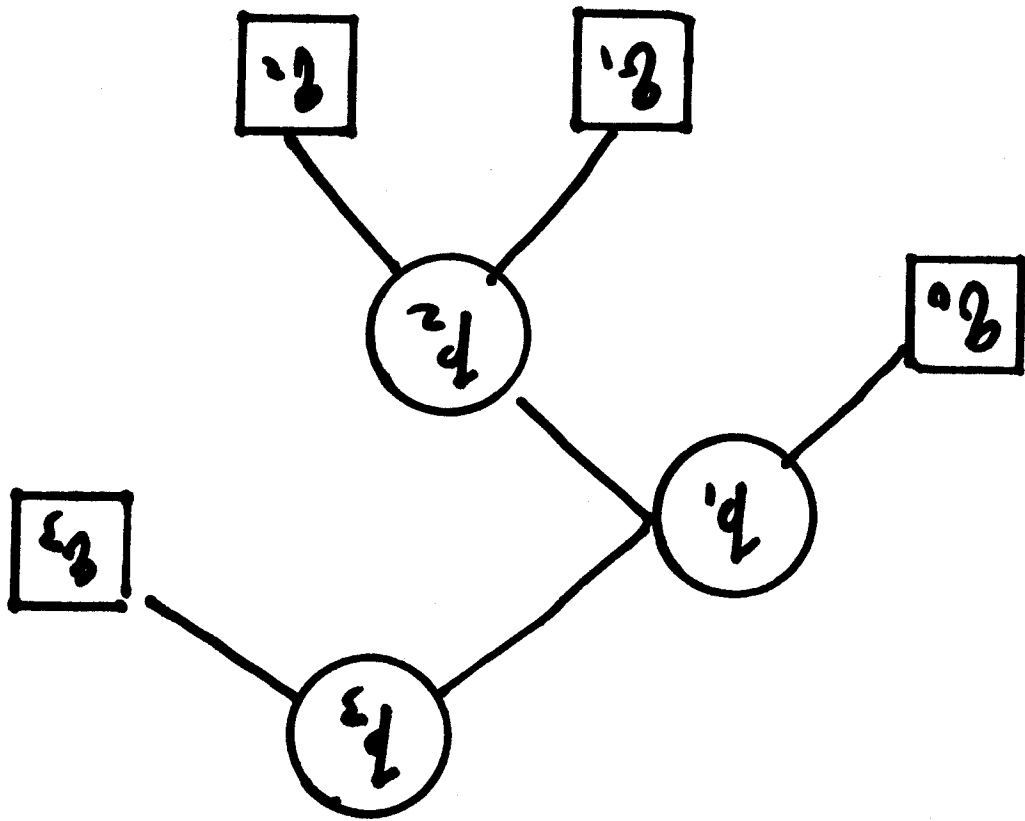
$$1 = p_1 + p_2 + \dots + p_n + q_0 + q_1 + \dots + q_n = 1$$

9-9-8



$$\text{cost} = \sum_{j=1}^i p_j (l_j + 1) + \sum_{k=1}^r g_k (l_k)$$

Optimum Binary Search Tree



L-915