Traveling Salesman Problem

Traveling Salesman Problem

- For each city *i, 1≤ i ≤ n, find* the sum *si of the distances from city i to the two nearest cities; compute the sums of these n numbers, divide the result by 2, and, if all the distances are integers,*round up the result to the nearest integer:

Traveling Salesman Problem

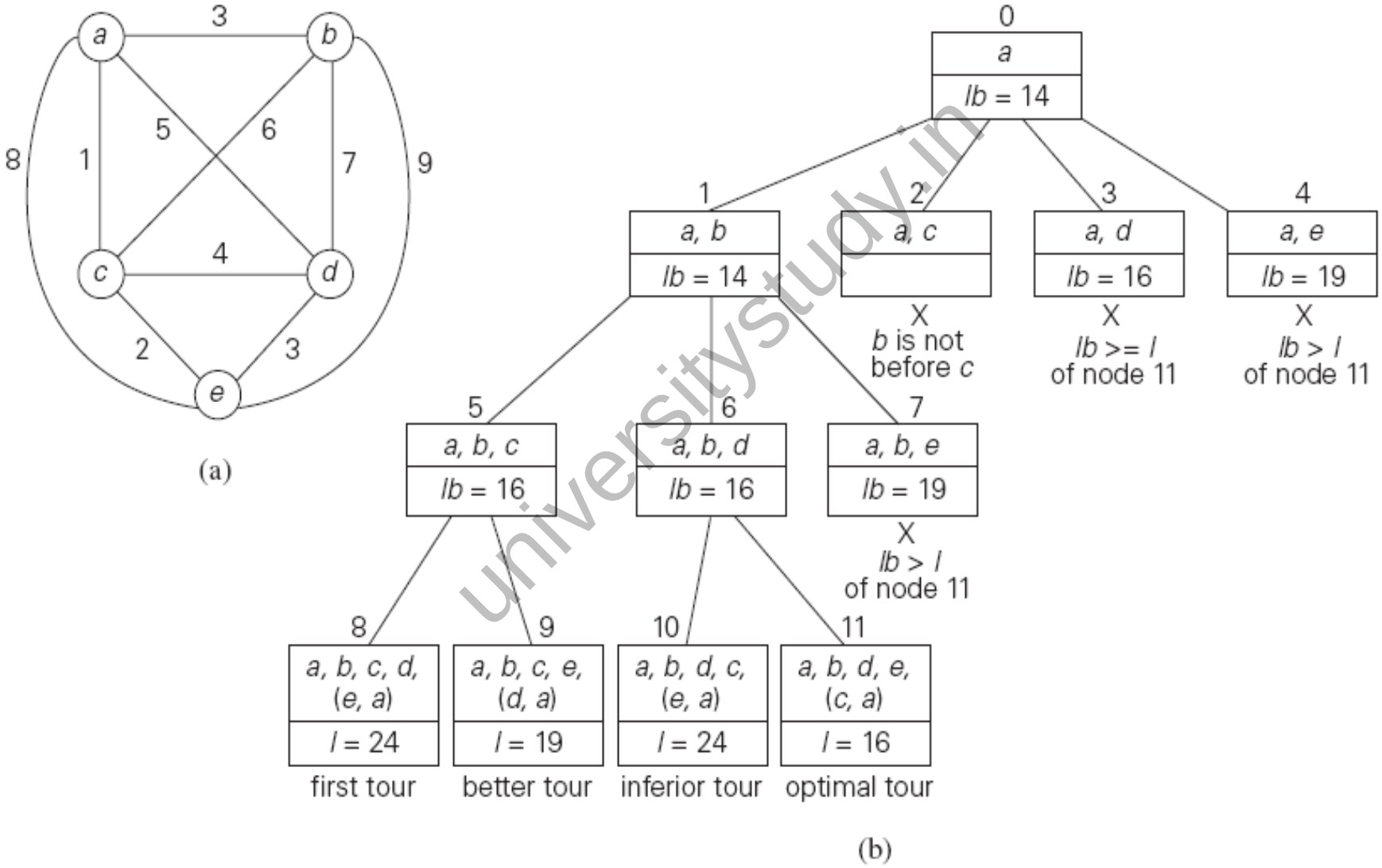
$$lb = \lceil s/2 \rceil.$$

$$lb = \lceil [(1+3)+(3+6)+(1+2)+(3+4)+(2+3)]/2 \rceil = 14.$$

Edge(a,d) and (d,a)

$$\lceil[(1+5)+(3+6)+(1+2)+(3+5)+(2+3)]/2\rceil = 16.$$

Example



Thank You !!!