

CSE408 TSD

Lecture #36

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



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

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

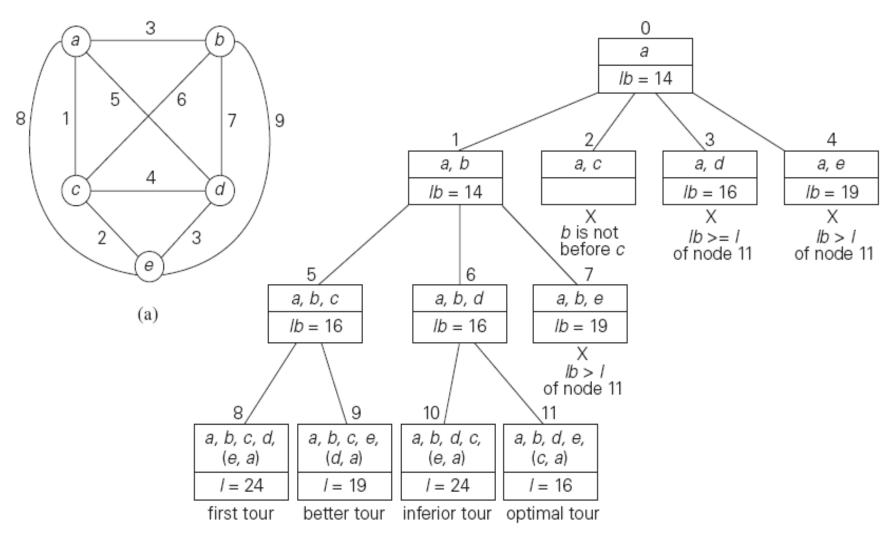
Edge(a,d) and (d,a)



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

Example







Thank You!!!