

# 620-261 Introduction to Operations Research

## TUTORIAL 11

1. Solve the travelling salesman problem whose distance matrix is:

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>A</i>	0	2	4	3
<i>B</i>	3	0	2	4
<i>C</i>	4	1	0	3
<i>D</i>	1	4	2	0

Your journey should start at city A.

2. Solve the transportation problem in which  $m = n = 3$ ,  $a_1 = 30$ ,  $a_2 = 40$ ,  $a_3 = 20$   $b_1 = b_2 = b_3 = 30$  and the matrix of transportation costs is given by

$c_{ij}$	1	2	3
1	15	35	25
2	10	50	40
3	90	80	110.