Problem 2 CS540 HW2

 $(\alpha) \quad \frac{(n^2+n)}{2} - n$

P. WHENERY VI

(C) (1) 1.1+1,4+0,5=3.0 ans:3.0

> (ii) V < M-W-E-S> town length: 1.1+0.6+0.5=2.2

< E-10-W-S> tour length: 1.4+1.1+0.7=3.2

< 65-M-E-W> 0.9+1,4+0.6=2.9 tour length=2.9

< W-E-M-5> 0.6+1.4+0.9 = 2.9 town length: 2.9

< W-S-E-M) 0.7+0.5+1.4=2.6 townlength: 2.6

< W-M-S-E> 1.1+0.9+0.7=2.5 tow/ength: 25

(M-W-E-5) is the next state 2.2. $(\vec{l}ij)$

((V) < W-M-E-5>

1-< M-W-E-5>

< M - S - E - W>

tour length: 20