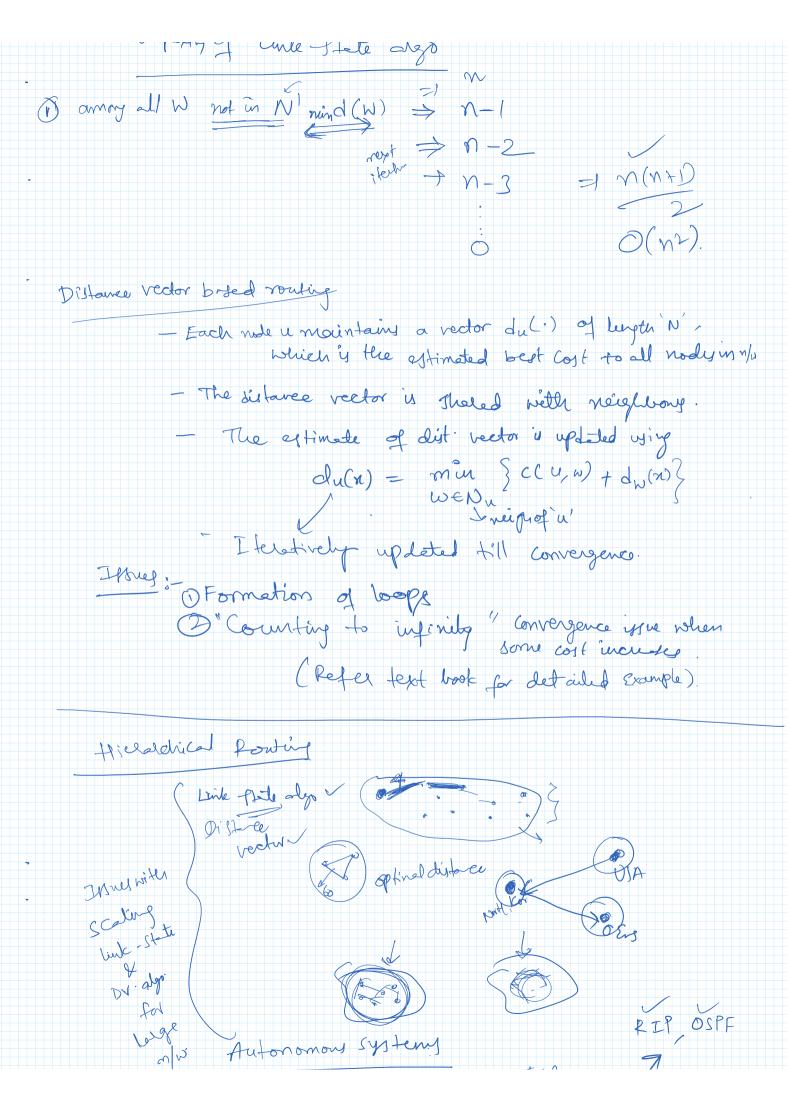


Link - State based algo. - "iterative algo - After 'k' iferations, the algo mill' give best path for 'k'destinations Stalting node = u. = set of all mode whose best path is known Eg: u5 x joined link cost  $|O_{y}| = |O|$   $\int_{u(y)}^{u(y)} dy = |O|$ Rest Petront  $(u \rightarrow v \rightarrow n \rightarrow y)$  $N'= \{u\}$   $D_u(u) = 0$ - for d(v, neight of u: inholize Du(v) = 5 D(v) = C(u, v). Du(y) = 10  $D(x) = \infty$ .  $D(x) = \infty$ . - loop until N' = whole set of node in n/w - Find a verten w' which is not in W" S.t D(w) is the minimi - Include it N'. - update the best of all neighborry of w?  $\forall v: vig neigh <math>D(v) = min \{ D(v), D(w) + C(w, v) \}$ Complexity of Line State algo



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