Coal Line Maintenance

N nodes Sets A arcs T weeks

Data capa capacity for arc a & A

farta from and to nodes for arc acA
So lif arc acA has a maintenance, Dotherwise.

Ca wan days for maintaining arc acA

days for maintaining arc acA

days to wack tet

Variables real amount flowing on are as A in week tet

Dat l'if maintain are a EA in week teT Objective max X roals & X rock, t

Constraints Kat < capa (1-yat) tach

Exat = Exat frentet acA acA acA st ta=n stfo=n

E yatroa & darft YtET

Xatz O tacA tet Yate 80,13 VacA, teT

2 Sat = Sa YacA