Sets P products T months Machines Data Profit per unit of product pGP Available machines meM Time required on machine me M to make one whit of pe P Usagepm # machines mem unavailable in month tet Maint to Max Approduct pep we can sell in month teT Marketpt Max storage per product per month MaxStore Cost per unit per month Store Cost Final manament of each product in storage Final Store Hours per month available on each machine. Month Hours

Variables
Xpt units of product PEP to make in month teT
Spt
Ypt to sell
56000
Objective Max & & Profit, Ypt & MSt.  - & & StoreCost & Spt.  tet per
E S Charlet C
Let Del Store (OSI > Pt
Constraints Xpt > 0, Spt > 0, Ypt > 0 + peP, teT
non-negative integers
Spt = Sp(t-1) + Xpt - Ypt + PEP, Spo = Xpo - Ypo + PEP
S = X - You YPEP
Ypt < Marketyt + PEP, t+T
Sps 2 Final Storage 4 PEP.
Subsection XV. and Will a 14 and 1 at
E chagepm * Xpt & MonthHours + MEM, teT PEP x (nMaintim)
bei
Spt & MaxStore tpEP, tET