



Title: Cost Minimization for Printer Assembly at Epson

Course:

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Type: Student Project

Note: This project is in the filing cabinet in the ETM department office.

Abstract: Epson Corporation in Hillsboro, Oregon assembles dot-matrix printers. Given the capacity of six assembly lines, three types of printers are to be assembled for fulfilling demand forecast in the month of December and January at minimum cost possible. All six of the assembly lines can be used for any of the three printers. Using data obtained from the company, a linear program was formulated based on the solution and sensitivity analysis, then alternatives were suggested for the company. The solutions are in the form of number of assembly lines needed for each printer, considering surplus and backlog of the products monthly. However, at the end of January the number of surplus or backlog of zero is assumed.