

A simple production problem

An engineering factory produces two types of tools: pliers and spanners.

The production costs and the selling prices (in euro) of each tool is the following table

	plier	spanner
production cost	1.5	1
selling price	6	5

The firm has an available budget per day of 18000 Euro.

The production of 1000 tools (either plier or spanner) requires the use of the plant for one hour. The plant is available 14 hours per day.

Decide how much should the factory produce to maximize the profit, assuming that all tools produced are sold.