Sets

P set of products

Data

 r_i return (%) for product $i \in P$

Variables

 x_i investment in product $i \in P$ (dollars)

Objective function

$$maximize \sum_{i \in P} r_i.x_i / 100$$

Constraints

$$\sum_{i \in P} x_i = 100,000$$

$$x_{Cars (Germany)} + x_{Cars (Japan)} \le 30,000$$
 (1)

$$x_{Short-term\ bonds} \ge 0.4x_{Medium-term\ bonds}$$
 (6)

$$x_i \ge 0 \ \forall \ i \in P$$