\begin{verbatim}
var x1 >= 0;
var x2 >= 0;
var x3 >= 0;
var x4 >= 0;

maximize objective: 6 * x1 + 5 * x2 + 3 * x3 + 7 * x4;

subject to malt: 1*x1 + 1 * x2 + 3 * x4 <= 50;
subject to hops: 2*x1 + 1 * x2 + 2 * x3 + x4 <= 150;
subject to yeast: x1 + x2 + x3 + 4 * x4 <= 80;
\end{verbatim}

\begin{verbatim}
set PRODUCTS;
set RESOURCES;

var x{p in PRODUCTS} >= 0;

param price{p in PRODUCTS} >= 0;
param avail{r in RESOURCES} >= 0;
param use{r in RESOURCES, p in PRODUCTS} >= 0;

maximize objective: sum{p in PRODUCTS} price[p] * x[p];

subject to resourcelimit{r in RESOURCES}:
    sum{p in PRODUCTS} use[r,p] * x[p] <= avail[r];
\end{verbatim}

\begin{verbatim}
set PRODUCTS = golden amber;
set RESOURCES = malt yeast hops;

param price := golden 7 amber 6;

param avail := malt 70 hops 90 yeast 30;

param use : golden amber :=
malt 3 2
hops 3 4
yeast 1 1;
\end{verbatim}