N types of food

M types of mutrition

a: j - food type i w/ mutrition type j for i = 1, ..., N

c: -unit price of food type i

bj - necessary quantity of mutrition type j for a month

obj: min cost to society mutrition

total rost: La: j c:

total mutrition = La: j b;

let TN: = total mutritional value of type j needed in a month

min La: j: i:

s.t. La: j a: j b: = TN;