```
              *** LINEAR PROGRAMMING ***
=========================================================================
PROBLEM NAME: Ohio creek ice cream company
=========================================================================
Max Z=  100 X1 + 100 X2
ST
(1)     0.3 X1 + 0.5 X2 <=  140
(2)     90 X1 + 70 X2 <=  28000


=========================================================================
SOLUTION:
=========================================================================
ITERATION NUMBER  3

VARIABLE MIX        SOLUTION
------------        --------
X2                   175.000
X1                   175.000

 Z                 35000.000


=========================================================================
SENSITIVITY ANALYSIS:
=========================================================================
CONSTRAINTS:
-------------------------------------------------------------------------
                                     RANGE OF RHS
CONSTRAINT      TYPE OF      SHADOW      FOR WHICH SHADOW
 NUMBER        CONSTRAINT    PRICE       PRICE IS VALID
----------     ----------    ------      ----------------
    1              <=        83.333      93.3333 -- 200.
    2              <=         0.833      19600. -- 42000.
NOTE: THE SHADOW PRICE REPRESENTS THE AMOUNT Z WOULD
      CHANGE IF A CONSTRAINT'S RHS CHANGED ONE UNIT.


-------------------------------------------------------------------------
DECISION VARIABLES:
-------------------------------------------------------------------------
NONBASIC    AMOUNT Z IS REDUCED (MAX) OR INCREASED (MIN)
VARIABLE    FOR ONE UNIT OF X IN THE SOLUTION
--------    --------------------------------------------
-------- NONE --------
-------------------------------------------------------------------------
```