Assignment on Big M Method

Write program to solve a problem with Big-M method with the following menus

1. Print the table of ith iteration (i is user-defined)
2. Print the column of jth non-basic variable of the ith table.
3. Print the pivot element and min ration of the pivot row of ith table.
4. Print the optimal solution.

Test your program with the following examples:

1. $Maximize \ -x + 2y, subject \ to \ x + y \geq 2, -x + y \geq 1, y \leq 3, x, y \geq 0.$
2. $Maximize \ 5x + 3y, subject \ to \ 3x + 2y \leq 18, x + y \geq 7, 4x + \ y \leq 13,$
   $x, y \geq 0.$