Problem:
schedule a tournament with n teams such that each team plays every other team exactly once

Input:
number of teams n

Output:
fixture of matches

Steps:

1. open text file containing the team names
2. ask user for number of teams n
3. read n team names from text file
4. if n odd, add a dummy team to the list to make n even
5. for the first n-2 rounds :
    a. output - round *k*
    b. initialize a vector x of length n with entries 1
    c. if team i (i = 1 to n) is not assigned a match
        i. if 2i = k (mod n-1)
        ii. if team n is dummy, bye round for team i
        iii. else team i plays team n
            x(i) = 0, x(n) = 0
    d. else team i plays team j, where i+j = k (mod n-1)
        x(i) = 0, x(j) = 0
6. for the last round :
    a. output - round *k*
    b. initialize a vector x of length n with entries 1
    c. if team i (i = 1 to n-2) is not assigned a match
        i. output - team i plays team n-i-1
            x(i) = 0, x(n-i-1) = 0
    d. if n odd - bye round for team n-1
    e. else - team n-1 plays team n-2