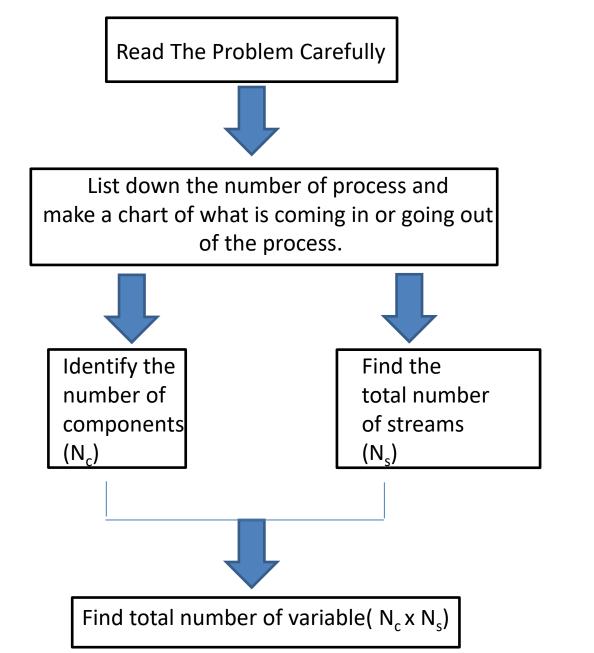
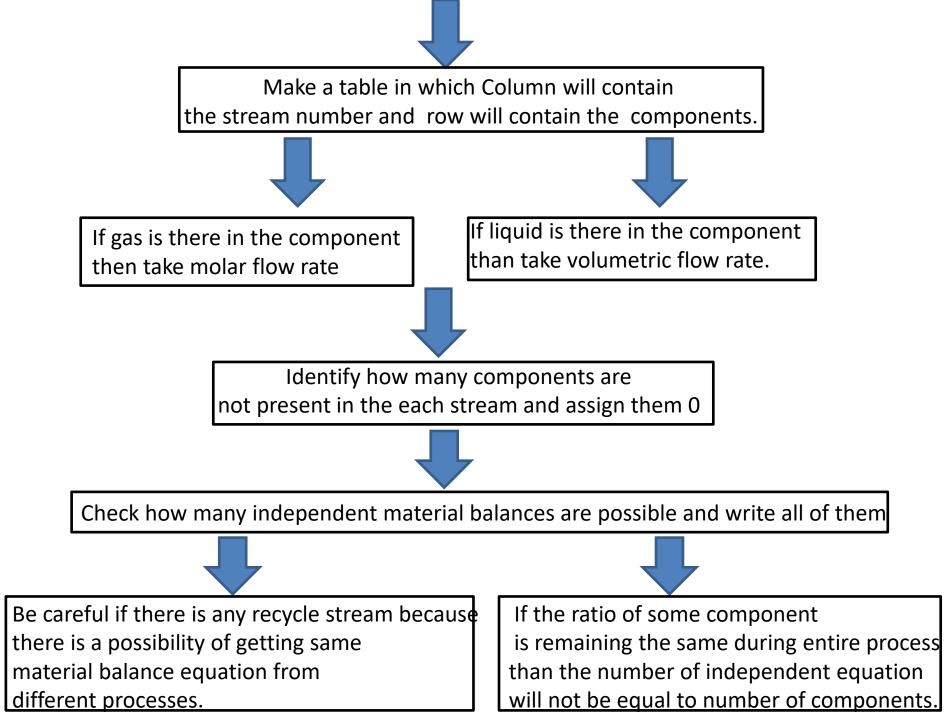
Steps for solving generic Material Balance Problems







Search out the relation given in the question and calculate degree of freedom as follows (If any reaction is taking place then one unknown variable will be introduced that is 'extent of reaction'.)

df =

(Total Variables)–(Known Variables)–(Independent Material Balance)–(Number of relations)+(Number of reactions)



If you have to find the variables which are involved only in one of the process and than focus on that process and calculate the df and solve the question.

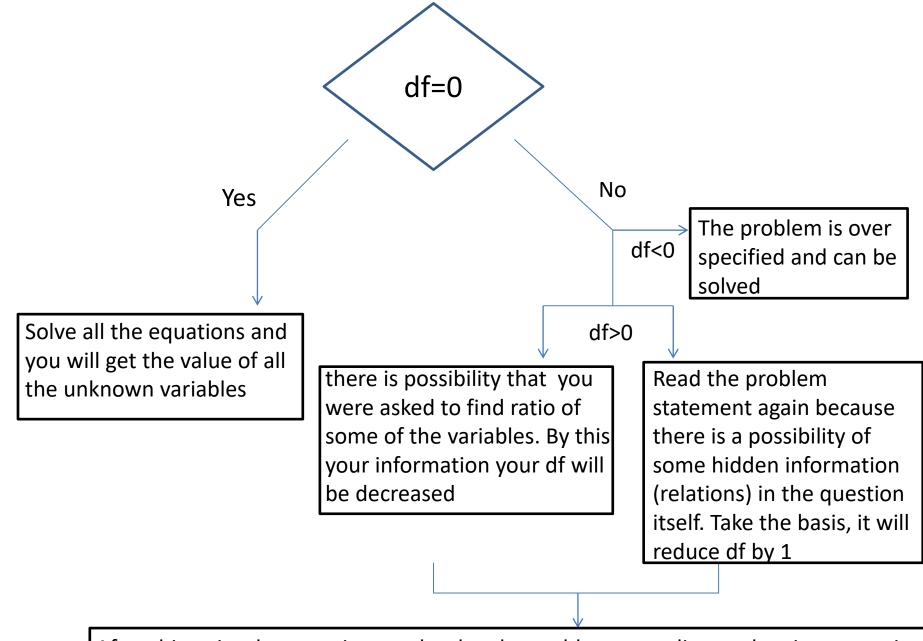


If you are asked the most of the things then do the df analysis



If you are asked only about End product than (Combined all the process) and calculate df.





After this write the equations and solve the problem according to the given question