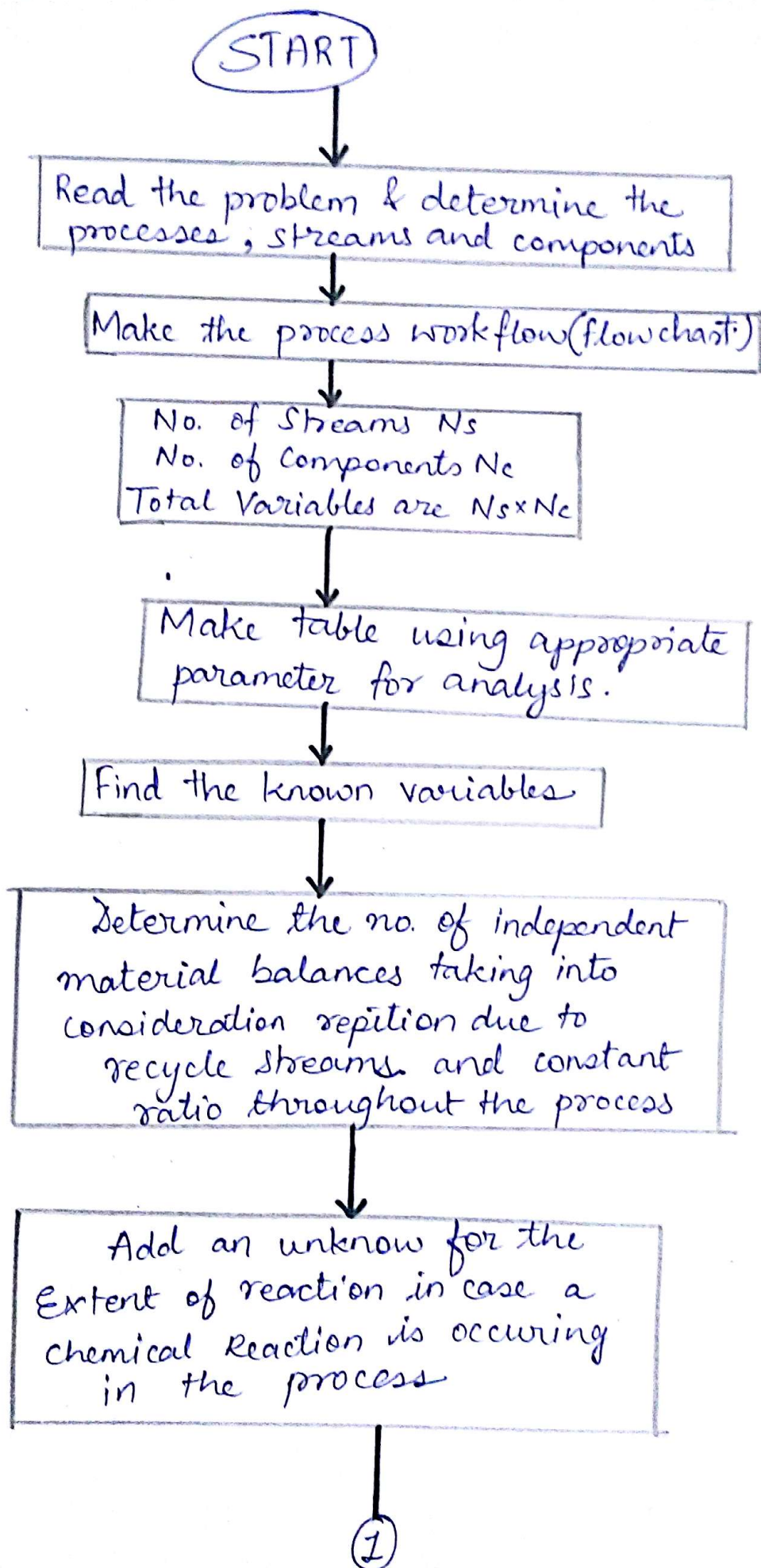


5.



①

Find out relations from problem Statements

Careful to check if a relation considered is due to information internal to a process, thus such relations do not have to be considered
e.g. Prob 4.62

Also needs to be taken care of that a relation does not match or couple to an independent material balance or else the df analysis will be wrong.

Also needs to be seen is that a particular relation provides additional values to unknown variables and its consideration affects the df value.

One more thing that needs to be monitored is that each relation is independent from the other and there is no way that explicit information can form the same relation.
e.g. A stream consists of 3 comp.
CO (25%), O₂ (50%) CO₂ (25%)

Do the df analysis and proceed by making equations from these relation as well as independent material balances.

Stop