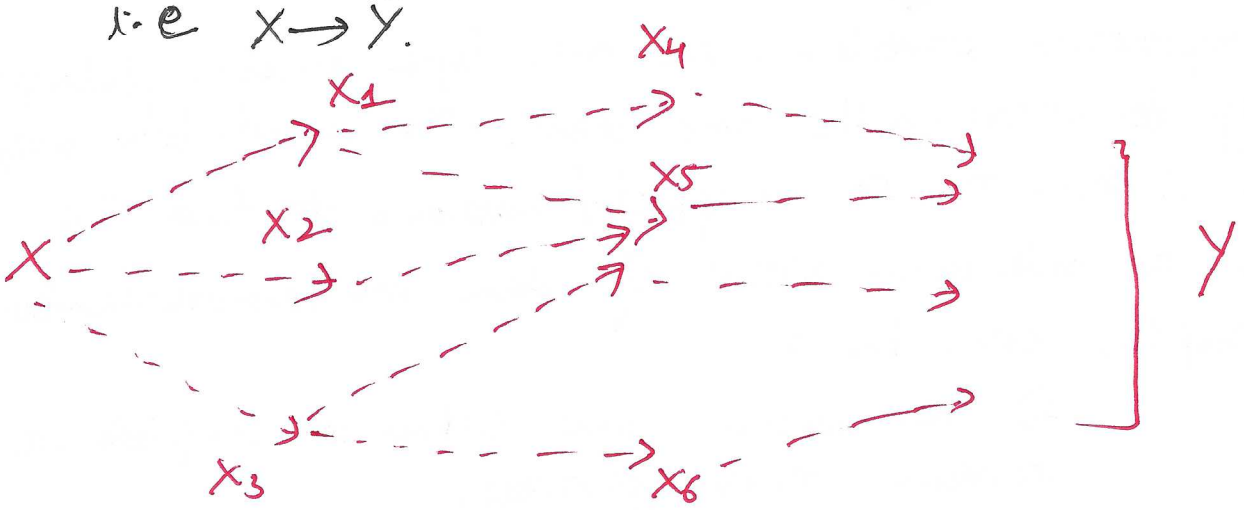
- The above point now leads us to a follow up question:
"As recursion is the parent and also a pre-requisite to apply the technique of dynamic programming, how does one identify that recursion can be applied to a specific problem.?".

Some ways one can identify that recursion can be applied to a problem are as follows:

1) In a problem where recursion can be applied in majority of such problems one could easily spot a notion of "choice" being pre-dominantly present in the problem. For instance one could think of the following scenario as a recursive problem:

a) Your current location is "X".
b) Your destination's location is "Y"
c) Your goal is to reach your destination i.e $X \rightarrow Y$.



We can say starting at "X" we can make multiple choices i.e going from $X \rightarrow X1, X \rightarrow X2, X \rightarrow X3$ and then from X_1, X_2 & X_3 we can make more such "choices"