



I calculated each route by adding my previous step to the next node like this:
 $Y \rightarrow G = 1$, $Y+G \rightarrow I = 1+4$, that means we end up with 5
 By calculating like this we can easily spot that $Y \rightarrow I$ would not be the faster than $Y -$

Further calculating like this I cancel out all the paths that does not lead to the shortest path and end up with the pink route

