Report of projec part1

break\_down helpers

lenght(L,N): make a list of length N [H1,H2,H3,.....HN]

accum(D,L): take the list and give the sum H1+H2+H3.....+HN

N#=D makes the sum in this variable

labeling([],L): make lists of pssiple submissin of N in length N

delete(L1,0,L2): delete zeros

msort():sort the lists

break\_down2():call break down and give lists

replace\_branch\_over\_everylist(X,[H1|T],[H1|T2],C): replace the branch of cXh2X+1 of positin

C in every list from position C to N-1

calling\_replace(helper 5): call replace\_branch\_over\_everylist n times over list

satrting from diffrent position every time after satisfying the conditon and do the same

but satisfying the conditions that helps me not to repeat an previous isomers .

(to handle he cases of more than one different branch )

helper6: pass throgh the numbers in breakdown lists (list by list) and put

the number as a parameter in calling\_replace.

helper8: call break\_down and give the result to helper6

branch\_alkane3: make a straight chain alkane of n carbon atoms and call helper8

branch\_alkane4 : calls the branch\_alkane3 or repeat the recursion until N = 3

branche\_alkanefinal: the main predicate call branche\_alkane4 on N-1