1575 Count all possible routes

let curr = be the index we are currently
at

memo = { }

def routes (curr, finish, fuel):

    if fuel < 0:

       return 0

    if (curr, fuel) in memo:

       return memo[(curr, fuel)]

  ans = 0
  if curr == finish

     ans += 1

else:

    For x in range (len(locations)) {
     if x! = curr {

      ans += routes $\left(x, finish, fuel - abs \left(loc[x] - loc[curr] \right) \right)$
    } }

      memo $\left[(curr, fuel) \right]$ = ans

      return memo $\left[(curr, fuel) \right]$

Time Complexity

$$O\left(n * fuel \right)$$

pseudopolynomial

           Not efficient