Max length of pair chain

n = [[1,2],[2,3],[3,4]] output = 2 why? [1,2],[3,4]

n = [[5,3],[3,2],[7,2],[2,1]] output = 4 why? = [2,1]-[3,2]-[5,3]-[7,2]

We first sort n by the first num in each sub-list

n = [[2,1],[3,2],[5,3],[7,2]]

3 1 2 1 N 1 0 = 6

then we create another list of size $\frac{n!}{(n/2)!(n-(n/2))!}$

in this case combs = [N, N, N, N, N, N, N]

each index will be a sum of pairs

- 0+1 = T [2,1],[3,2] b < c in (a,b),(c,d)
  combs[0] = list=[0,1], link=T best_yet = 2 (len(list))
- 0+2 = T [2,1],[5,3]
  combs[1] = list=[0,2], link=T
- 0+3 = T [2,1],[7,2]
  combs[2] = list=[0,2], link=T
- 0+1+2 = T 0+1=T or we check 1+2=T only check
- 0+1+3 = T 0+1=T or we check 1+3=T
- 0+1+2+3 = T 0+1+2=T or we check 2+3=T

best_yet = 4