

2.5 - Recursion on Arraylist

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Q) Take n

n int input \rightarrow arraylist.

Recursive func to find the sum of all even elements in the arraylist.

Q) If we feel that the no. of parameters given in the input function are not sufficient, then we can make our own helper funcⁿ with extra params. But we never change the original funcⁿ.

String Permutation

abc \rightarrow
③

abc
acb
bac
bca
cab
cba

n!

abcde

a [bcd] \rightarrow a b
b c
c d } $\rightarrow 24$

abcde a b c d e \rightarrow $\frac{b}{6}$ $\frac{c}{6}$ $\frac{d}{6}$ } $\rightarrow 14$

aab \Rightarrow $\frac{b}{6} = 6$ $\frac{a}{a}$ $\frac{ab}{aba}$
 $\frac{a}{a}$ $\frac{ab}{aba}$
 $\frac{b}{ba}$ $\frac{ba}{ba}$

Set
 \rightarrow set is a DS which only contains unique values

$[10, 10, 20, 30]$
 $\hookrightarrow \{10, 20, 30\}$

Set
 \rightarrow Hash set } Random order
 \rightarrow Tree set } sorted order
 \rightarrow Linked Hash set } maintains the order of insertion

$\frac{10, 8, 9, 10}{15}$
 $\{8, 9, 10\}$

* sets are always iteration using for-each loop because there is no concept of indexing.

loop break ~ indexing 1 0