Days /

Recursion (Google, Amazon Questions)

* LeetCode - 17. Letter Combinations of a Phone Number

Take	example	like this	
			1 1, 1 5 "
1	2	3	ad = choose d you 2
abc	def	gui 878	chease a feet 1
L	5	6	ae - choose e jon 2
ikl	muo	P9r	choose a
9 10 11	12 1314	15 16 17	for 1
7	8	9	of - choose of for 2
stu	Vwx	42	
28 19 20	212223	2 25	Jon 1
-	Allert		

ad | ""ae | "" af | ""

take 2 & call from

all letters corresponding

to 2 (d, e, f.)

individual letters
in processed

* Keep removing
first letter from
unprocessed

* when unprocessed is empty you have found

Data: / Paga No.

*	Conventing	aigits to corney	onding applabets
	0		,
	1	2	3
	abc	def	ghi
	012	3 4 5	Q 78
	4	, 5	6
	ike	mno	pgr
	91011	12 13 14	15 16 17
	-	8	9
			42
	stu	VWX	25 => you ide 26
	18 19 20	21 22 23	stop et
			- la dalla
-	For each	digit the rang	e can be defined
	like this	0 - 0	1.7
		La	2 0
	digit ran	ge = [(digit - 1) * 3	3 digit * 3
	U		
	all the	V	
		for loop from a	tra b-1
	Jun a	Jun done	
			* (1)
	-,	12-11-2	
	to at	you digit = 2	
			The State of the later of the l
	index =	$3 \rightarrow 5$	de bills for
		The state of the s	1
	2	4	5
		DOLL OF STREET STREET	third chan of 2
	hist charged 2 d	' a'+4 = e'	'9'+ 5='F'
	1		
	chan	The same of the sa	
	add		The state of the s
	Date 2		and the second s

pruiting all combinations static void pad (String p, string up) f if (up is Empty ()) &

System Jout println (p);

victure; int algit = up. charAt(0) - '0'; 11 convert '2' to 2 for (int i= (digit- 5) + 3; i/digit + 3; i+1) { if (1 > 25) continue char ch = (chan) ('a'+i); pad (p+ch, up substring (1));

storing answers in Arraylist static Arraylist & string > padket (String + p, String up) if (up istrupty ()) of Retron astray list consciencing Answer Dist. add(p); list = new Arraylist <>(); octure list; Hake Arraylist for All answers Arraylist < String > list = new Arraylist <> (); Add answerd char ch = (char) ('a' + i); y(i>25) continue; Pall the > list. add All (poolet (p+ch, up. substring (1)); return list; return final list calls

returning count of all answers static int pad Count (String p, String up) & y (up istimpty) ? return 1; 2 return 1 int count = 0; < Country answers
int digit = up. charAt(0) - '0'; for (int i = (digit = 1) +3; i<digit *3; i+t char char (char) ('a'+1); to char Count = count + pad Count (ptch, up substrue (1)) seturn count ; e setion final ansever

Dice Combination Get 4 1,2,3,4,5,6 Answers (4), (2,2), (1,1,2 * Here also we are getting taking & sunoving something take 4 take I NOTE: We can take 111/1 (112/0) 421 values == target 7177/0

static void dice (String p, jut target) {

iy (target = = 0) {

System. out. println (p);

3 return; for (int i-0; i = 6 && i <= target; i++) { 3 dice (pti, target -i); returning List stored with all combinations static ArrayList < string > dice Ret (String p, int target)

if (target = = = 0) }

ArrayList < string > list = new ArrayList < > ();

list add(p); Arraylist < string > list = new Array List < >(); Jor (int i=1; i <= 6 = 82 i <= target; i+) { list add All (dicefet (pti, target-i); 7 return list