./a.out 9567 1085 10652

Rule: Only one letter can be assigned to a digit and only one digit can be assigned to a letter.

Recursion Level 1	Recursion Level 2	Recursion Level 3
9567 (4 letters)	1085 (4 letters)	10652 (5 letters)
…	…	…
SEED	MERE	…
…	…	…
…	MORE	…
SEND	…	…
…	…	MONEY
…	…	…
…	…	SWEAT

char letter[10]

0	1	2	3	4	5	6	7	8	9
O	M				E	N	D	R	S

int counts[10]

0	1	2	3	4	5	6	7	8	9
1	1	0	0	0	2	1	1	1	1

bool in_use[26]

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
F	F	F	T	T	F	F	F	F	F	F	F	T	N	O	F	F	T	T	F	F	F	F	F	F	F