

## Playing with arrays

In this morning newspaper, you could find this Sudoku grid ...

AK1	AL1	AM1	BN1	BO1	BP1	CQ1	CR1	CS1
	5		3	7				
AK2	AL2	AM2	BN2	BO2	BP2	CQ2	CR2	CS2
7	4	8	9					
AK3	AL3	AM3	BN3	BO3	BP3	CQ3	CR3	CS3
1			4					
DK4	DL4	DM4	EN4	EO4	EP4	FQ4	FR4	FS4
3							1	
DK5	DL5	DM5	EN5	EO5	EP5	FQ5	FR5	FS5
	7	2				5	6	
DK6	DL6	DM6	EN6	EO6	EP6	FQ6	FR6	FS6
	6	1				8		3
GK7	GL7	GM7	HN7	HO7	HP7	IQ7	IR7	IS7
					1			5
GK8	GL8	GM8	HN8	HO8	HP8	IQ8	IR8	IS8
2					4		9	8
GK9	GL9	GM9	HN9	HO9	HP9	IQ9	IR9	IS9
				6	3		4	

Let's consider box AL1 (with number 5) - Since it has a number in it, I would like to write an array showing this number only (5)... If it were empty( null), I would like to write an array showing all the numbers I cannot use, instead... (1, 3, 4, 6, 7, 8) and therefore those I can use [2, 5, 9]

AK1	AL1	AM1	BN1	BO1	BP1	CQ1	CR1	CS1
	5		3	7				
AK2	AL2	AM2	BN2	BO2	BP2	CQ2	CR2	CS2
7	4	8	9					
AK3	AL3	AM3	BN3	BO3	BP3	CQ3	CR3	CS3
1			4					
DK4	DL4	DM4	EN4	EO4	EP4	FQ4	FR4	FS4
3							1	
DK5	DL5	DM5	EN5	EO5	EP5	FQ5	FR5	FS5
	7	2				5	6	
DK6	DL6	DM6	EN6	EO6	EP6	FQ6	FR6	FS6
	6	1				8		3
GK7	GL7	GM7	HN7	HO7	HP7	IQ7	IR7	IS7
					1			5
GK8	GL8	GM8	HN8	HO8	HP8	IQ8	IR8	IS8
2					4		9	8
GK9	GL9	GM9	HN9	HO9	HP9	IQ9	IR9	IS9
				6	3		4	

I just cannot find the right routine