Compaction Worksheet
AI - Fall 2017

For each code snippet in the left column, find a way to express it in one line. If it is already on one line, find a way to make it shorter. If the variable name indicates a data type, you may assume it is so (eg. `listOfInts`).

1.	`{j for j in range(0, 100, 10)}`
2.	`val1 = "something"` `val2 = "else"`

3.	`sm = 0`
	`for j in range(len(lstNums)):`
	`  sm += lstNums[j]`

4.	`{0, 8, 10, 18, 20, 28, 30, 38, 40, 48, 50, 58, 60, 68, 70, 78, 80, 88, 90, 98}`
5.	A list of length 20 where each entry is a 7
6.	`"frogfrogfrogfrogfrogfrogfrogfrogfrogtoad"`
7.	List of all the distinct chars in `myStr`
8.	`myInt - myInt`

9.	`for idx in range(len(pzl)):`
	`  sym = pzl[idx]`
	`  …`

10.	`myCopy = listOfInts.deepcopy()`
11.	Given a binary num, `binInt`, identify an on bit in `binInt`.
12.	A list of integers from 1 to 100, inclusive, but if an integer is divisible by 5, it is replaced by a 5, and if an integer is divisible by 7 and not by 5, it is replaced by a 7
13.	The set of positive integers less than 1024 that are not perfect squares
14.	Print of a 2D representation of a Sudoku puzzle, where the puzzle is represented by a string, `pzl`, of length 81