I Printer Machine

Time limit: 1 sec

Voldemort is back again! In order to kill him, Harry porter need to finish the final horcrux. The final horcux is he needs to draw a nested square of different lengths. He only can do the smaller length squares, but fails against the larger ones. Though he is a great magician, he is unable to solve this problem (he is not a programmer :p); he needs an expert to help him. As you are one of the best programmers in AUST, he asks you to solve the problem.

You will be given an integer **N (N will be odd length),** print the corresponding nested square to help Harry porter.

Input:

First line there will an integer T ($1 \le T \le 20$) which represents number of test cases, next following T lines, there will an integer N ($5 \le N \le 100$).

Output:

For each test case print the case number and then print the image of the square. For drawing the lines use character ('#'). See the sample I/O.

Input	Output

2
5
7
	Case 1:
	#####
	# #
	# ###
	# # # #
	### #
	  # #
	  ###
	Case 2:
	#######
	# #
	# #
	# #####
	# # # #
	# # # #
	##### #
	  # #
	  # #
	  #######