Generating a grid   X52952_en

Write a program that, given triples of positive natural numbers n, m, side generates grids with n×m squares with side side as those shown in the examples.

Input

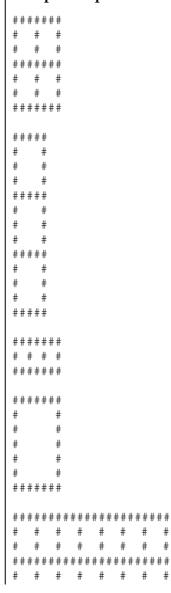An arbitrary number of cases, each of them consisting of three positive natural numbers n, m, side on one line.

Output

For each case, the corresponding grid followed by a blank line.

Sample input	Sample output
2 2 2	#######
3 1 3	# # #
1 3 1	# # #
1 1 5	#######
8 7 2	# # #
4 2 4	# # #
3 5 2	#######
6 3 4	
3 4 4	#####
7 5 3	# #
5 1 4	# #
1 8 2	# #
7 3 3	#####
4 4 4	# #
2 3 3	# #
3 6 4	# #
2 1 4	#####
3 6 2	# #
6 8 1	# #
2 7 1	# #
4 3 2	#####
7 4 1	
5 2 3	#######
3 5 2	# # # #
	#######
	#######
	# #
	# #
	# #
	# #
	# #
	#######
	#####################
	# # # # # # # #
	# # # # # # # #
	#####################
	# # # # # # # #

```
#   #   #   #   #   #   #   #          #       #       #       #
######################                #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
#   #   #   #   #   #   #   #          ##################
#######################               #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
######################                #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
#   #   #   #   #   #   #   #          ##################
#########################             #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
######################                #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
#   #   #   #   #   #   #   #          ##################
########################              #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
######################                #       #       #       #
#   #   #   #   #   #   #   #          #       #       #       #
#   #   #   #   #   #   #   #          ##################

##########
#       #       #
#       #       #                     #####################
#       #       #                     #       #       #       #       #
#       #       #                     #       #       #       #       #
##########                            #       #       #       #       #
#       #       #                     #       #       #       #       #
#       #       #                     #####################
#       #       #                     #       #       #       #       #
#       #       #                     #       #       #       #       #
#       #       #                     #       #       #       #       #
##########                            #       #       #       #       #
#       #       #                     #####################
#       #       #                     #       #       #       #       #
#       #       #                     #       #       #       #       #
#       #       #                     #       #       #       #       #
##########                            #       #       #       #       #
#       #       #                     #####################
#       #       #
#       #       #                     #####################
#       #       #                     #       #       #       #       #
##########                            #       #       #       #       #
                                      #       #       #       #       #
################                      #####################
#   #   #   #   #                     #       #       #       #       #
#   #   #   #   #                     #       #       #       #       #
################                      #       #       #       #       #
#   #   #   #   #                     #####################
#   #   #   #   #                     #       #       #       #       #
################                      #       #       #       #       #
#   #   #   #   #                     #       #       #       #       #
#   #   #   #   #                     #####################
################                      #       #       #       #       #
                                      #       #       #       #       #
################                      #       #       #       #       #
#       #       #                     #####################
#       #       #                     #       #       #       #       #
#       #       #                     #       #       #       #       #
#       #       #                     #       #       #       #       #
################                      #####################
#       #       #                     #       #       #       #       #
```

```
#   #   #   #   #   #              #   #   #   #
#####################              #   #   #   #
#   #   #   #   #   #              #############
#   #   #   #   #   #              #   #   #   #
#   #   #   #   #   #              #   #   #   #
#####################              #   #   #   #
#   #   #   #   #   #              #############
#   #   #   #   #   #              #   #   #   #
#   #   #   #   #   #              #   #   #   #
#####################              #   #   #   #
                                   #############

######
#    #                             #####################
#    #                             #   #   #   #   #
#    #                             #   #   #   #   #
#    #                             #   #   #   #   #
######                             #   #   #   #   #
#    #                             #####################
#    #                             #   #   #   #   #
#    #                             #   #   #   #   #
#    #                             #   #   #   #   #
######                             #   #   #   #   #
#    #                             #####################
#    #                             #   #   #   #   #
#    #                             #   #   #   #   #
#    #                             #   #   #   #   #
######                             #   #   #   #   #
#    #                             #####################
#    #                             #   #   #   #   #
#    #                             #   #   #   #   #
#    #                             #   #   #   #   #
######                             #   #   #   #   #
#    #                             #####################
#    #
#    #                             #############
#    #                             #   #   #   #
######                             #   #   #   #
                                   #   #   #   #
                                   #############
##########################         #   #   #   #
#   #   #   #   #   #   #           #   #   #   #
#   #   #   #   #   #   #           #   #   #   #
##########################         #############

#############                      ################################
#   #   #   #                      #   #   #   #   #   #   #
#   #   #   #                      #   #   #   #   #   #   #
#   #   #   #                      #   #   #   #   #   #   #
#############                      #   #   #   #   #   #   #
#   #   #   #                      ################################
#   #   #   #                      #   #   #   #   #   #   #
#   #   #   #                      #   #   #   #   #   #   #
#############                      #   #   #   #   #   #   #
#   #   #   #                      #   #   #   #   #   #   #
#   #   #   #                      ################################
#   #   #   #                      #   #   #   #   #   #   #
#############                      #   #   #   #   #   #   #
#   #   #   #                      #   #   #   #   #   #   #
#   #   #   #                      #   #   #   #   #   #   #
#   #   #   #                      ################################
#############
#   #   #   #
```

```
######                        #   #   #   #
#    #                        #   #   #   #
#    #                        ##########
#    #
#    #                        #########
######                        #  #  #  #
#    #                        #########
#    #                        #  #  #  #
#    #                        #########
#    #                        #  #  #  #
######                        #########
                              #  #  #  #
                              #########
##################            #  #  #  #
#  #  #  #  #  #  #            #########
#  #  #  #  #  #  #            #  #  #  #
##################            #########
#  #  #  #  #  #  #            #  #  #  #
#  #  #  #  #  #  #            #########
##################            #  #  #  #
#  #  #  #  #  #  #            #########
#  #  #  #  #  #  #            #  #  #  #
##################            #########

################              #########
# # # # # # # # #             #   #   #
################              #   #   #
# # # # # # # # #             #   #   #
################              #########
# # # # # # # # #             #   #   #
################              #   #   #
# # # # # # # # #             #   #   #
################              #########
# # # # # # # # #             #   #   #
################              #   #   #
# # # # # # # # #             #   #   #
################              #########
# # # # # # # # #             #   #   #
################              #   #   #
                              #   #   #
##############                #########
# # # # # # # #               #   #   #
##############                #   #   #
# # # # # # # #               #   #   #
##############                #########

##########                    ###############
#  #  #  #                    #  #  #  #  #  #
#  #  #  #                    #  #  #  #  #  #
##########                    ###############
#  #  #  #                    #  #  #  #  #  #
#  #  #  #                    #  #  #  #  #  #
##########                    ###############
#  #  #  #                    #  #  #  #  #  #
#  #  #  #                    #  #  #  #  #  #
##########                    ###############
```

Observation

You can generate the output character by character or with strings built previously, it's up to you.

Assessment over 10 points:

- Slow solution: 5 points.

- Fast solution: 10 points.

We understand as fast solution one being correct, with linear cost and able to overcome both the public and private tests. We understand as slow solution one not being fast, but correct and able to overcome the public tests.

Problem information

Author : PRO1
Generation : 2023-10-25 21:26:14