Pattern Printing

Decode the logic and print the Pattern that corresponds to given input.

If N= 3 ,then pattern will be :

10203010011012
**4050809
****607

If N= 4, then pattern will be:

1020304017018019020
**50607014015016
****809012013
******10011

Constraints
2 <= N <= 100

Input Format
First line contains T, the number of test cases
Each test case contains a single integer N

Output
First line print Case #i where i is the test case number
In the subsequent line, print the pattern

Test Case 1
3
3
4
5

Output
Case #1
10203010011012
**4050809

****607
Case #2
1020304017018019020
**50607014015016
****809012013
******10011
Case #3
102030405026027028029030
**6070809022023024025
****10011012019020021
******13014017018
*******15016