



Snail

Time Limit 1 second

Problem

Once upon a time, a snail that really loved mathematics was living in Adama.

He loved writing some numbers on his shell spirals.

For example, $n=5$,

21	22	23	24	25
20	7	8	9	10
19	6	1	2	11
18	5	4	3	12
17	16	15	14	13



Print the number arrangement of snail.

Input

Your program is to read from standard input. The input consists of T ($1 \leq T \leq 10$) test cases. The number of test cases T is given in the first line of input. For each case you are given odd number n on a single line, ($1 \leq N < 1,000$)

Output

Your program is to write to standard output. For each test case, you should print the number arrangement of snail. Your output should be formatted in such a way that each number takes up a width of 5 using the following:

Sample Input 1	Sample Output 1
2	7 8 9
3	6 1 2
5	5 4 3
	21 22 23 24 25
	20 7 8 9 10
	19 6 1 2 11
	18 5 4 3 12
	17 16 15 14 13