Initial Test	
Programming Test 60 minutes	BINUS UNIVERSITY
Periode Berlaku Semester Ganjil 2023/2024 Valid on Odd Year 2023/2024	Software Laboratory Center Assistant Recruitment 24-1

Soal

Case

Spiral Dimension

You are given an integer \mathbf{N} , representing the **length** of **array** \mathbf{X} , which contains values X_1, X_2, \dots, X_n . Additionally, you are given an integer \mathbf{S} , which represents the total number of **segments**. It is important to note that \mathbf{S} should always be **less than or equal** to \mathbf{N} . For example, if the given array opens [1, 2, 3] and \mathbf{S} (segment) is $\mathbf{2}$, splitted array will be [1, 2], [2, 3], [3, 1]

Your task is to **split the array** X into S smaller arrays and print these arrays in a **spiral order**. The **direction** of the spiral should follow the same direction as **a clock**.

Input

The program will ask for multiple input, which is N , X_1 , X_2 , ..., X_n , S.

Constraint

 $1 \le N \le 10^4$

 $1 \le X_i \le 1000$

 $1 \leq S \leq N$

Output

Print the X_i

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Example

Input	Output														
5	10) ;	23	9	3	1	2	10	2	3	10	1	.2	3	9
10 23 9 3 12	23	3 9	9 3	3 :	12										
3															
9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6
1 2 3 4 5 6 7 8 9	7	8	7	6	5	4	3	2	1	9	8	7	6	5	4
	3	2	3	4	5	6	7	8	9	1	2	3	4	5	6
9	5	4	3	2	1	9	8	7	6	5	4	5	6	7	8
	9	1	2	3	4	3	2	1	9	8	7	6	7	8	9
	1	2	1	9	8	9									

Explanation

In the first case, N = 5, which means the array will contain 5 values: [10, 23, 9, 3, 12].

Given S = 3, the segment **length** should be 3. The segments are:

[10, 23, 9],

[23, 9, 3],

[9, 3, 12],

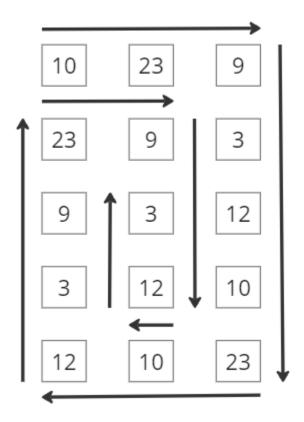
[3, 12, 10],

[12, 10, 23].

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The output should be the 2D array containing these segments arranged in a spiral order until all number printed like this:



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