Problem L: Lots of Land Time limit: 1 second

Farmer Robert has been running a very successful cereal farm for many years. Now he wants to diversify his business and get into growing potatoes. To this end, he has bought a new plot of land on which he plans to plant the potatoes. This field is a rectangle and is exactly ℓ metres long and w metres wide.

Since Robert is new to the potato business, he has initially purchased n different potato varieties to try out in the first year. He plans to divide his plot of land into n parts of equal area and plant



Some potatoes. Picture by Wounds_and_Cracks,

one of the varieties on each. To make it easier for him to work the fields with his tractor, each new piece of land should itself be a rectangle and have integer side lengths. Help Robert to find a suitable division of his field.

Input

The input consists of:

• One line with three integers $\ell, w, n \ (1 \le \ell, w \le 100, 1 \le n \le 26)$, the length and width of Robert's field and the number of potato varieties.

Output

If there is no solution, output impossible. Otherwise output ℓ lines, each with w uppercase letters, describing a possible division of Robert's field. There should be the same number of occurrences of each of the first n letters of the English alphabet, and for each letter, its occurrences should form a single rectangular region. If there is more than one solution, any one of them will be accepted.

Sample Input 1	Sample Output 1
4 4 4	АААА
	BBCC
	BBCC
	DDDD

Sample Input 2	Sample Output 2
6 15 9	GGGGGBBBBBBBBBB
	GGGGGAAAAAAAAA
	IIIIIIIIEEEEE
	FFFFFFFFFFEEEEE
	СССССООООННННН
	СССССДДДДННННН

Sample Input 3	Sample Output 3
100 100 26	impossible