# Problem G. Hash

Input file:	standard input
Output file:	standard output
Time limit:	2 seconds
Memory limit:	256 mebibytes

A HAIKU is a string that consists of at most 50 lowercase English letters. For a HAIKU s, you can compute the hash h as follows:

h = 0for i=0,...|s|-1 h = (h \* a + (s[i] - 'a' + 1)) % b

You are given two integers a and b. Construct 100 distinct HAIKUs that have the same hash.

### Input

You are given two space-separated integers a and b  $(b \le 10^9, 26 \le a < b)$ .

## Output

Print 100 HAIKUs with the same hash, one per line.

#### Example

standard input	standard output
26 52	aaz
	baz
	caz
	daz
	•••
	zaz
	aaaz
	abaz
	cuaz
	cvaz

#### Note

Several HAIKUs are omitted in the printed version of statements; the full version is published in the contest system.