

Welcome to ICPCCamp 2016!

Input file: standard input
Output file: standard output
Time limit: 2 seconds
Memory limit: 64 megabytes

Welcome to ICPCCamp 2016! Bobo was now solving (maybe) the easiest problem in the contest. Bobo was given 6666 integers $a_1, a_2, \dots, a_{6666}$ between 1 and 2016. He was asked to find 2016 integers from them whose sum is a multiple of 2016.

“Stupid ...” Bobo murmured. However, he quickly found that this problem would not be able to solve another time until ICPCCamp 2025. Can you figure out why?

Input

Each of the 6666 lines contains an integer a_i ($1 \leq a_i \leq 2016$).

Output

2016 distinct integers $b_1, b_2, \dots, b_{2016}$ denote Bobo could use $a_{b_1}, a_{b_2}, \dots, a_{b_{2016}}$ as answer. Any 2016 numbers whose sum is a multiple of 2016 will be accepted.

Examples

standard input	standard output
1	1
1	2
1	3
...(6660 lines omitted)	...(2010 lines omitted)
1	2014
1	2015
1	2016