







For training purposes, I want you to take over all the withdrawals that can be fulfilled with exactly two coins.

- You are given a list of currencies.
- For each currency you are given amounts of money that customers want to withdraw.
- For each amount, **construct it with exactly two coins** of the given currency.
- You may use two coins of the same value.
- Every amount has a solution.  
There may be multiple correct solutions.



Input

Name	Description	Example
N	Number of currencies	3
C	Number of coin values per currency	5 3
A	Number of amounts per currency	1 2 6 9 14 10 4 15
Repeated N times		1 2 3 4 7 7 11 10 1 3 5 8 11 12 14 6
Currency	C integers separated by spaces, each representing the value of a coin	
Amounts	A integers representing the amounts to construct with exactly two coins	

Output

Name	Description	Example
Solution Pair (repeated N × A times)	Two integers representing the two numbers necessary to construct the given amount	1 9 2 2 1 14 3 4 4 7 3 7 1 11 3 11 1 5







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