## Problem T. Double reverse

Time limit 1000 ms

Mem limit 125106 kB

Given a sequence of positive integers 1, 2, 3, ..., n. Arrange first in reverse order the part of this sequence starting from the element with number a to the element with number b, and then reverse the subsequence starting from element with number c to the element with number d.

## Input

Given the integers n (1  $\leq$  n  $\leq$  1000), a, b, c, d (a < b, c < d, 1  $\leq$  a, b, c, d  $\leq$  1000)...

## Output

Print the resulting sequence.

## Example

Input	Output
9 2 5 6 9	1 5 4 3 2 9 8 7 6

Input	Output
9 3 6 5 8	1 2 6 5 8 7 3 4 9