Problem H. H

Time limit 2000 ms
Mem limit 1048576 kB

Problem Statement

You are given a sequence $A = (A_1, A_2, \ldots, A_N)$ of length N and positive integers P, Q, R, and S.
Here, P, Q, R, and S satisfy $1 \leq P \leq Q < R \leq S \leq N$ and $Q - P = S - R$.

Let $B = (B_1, B_2, \ldots, B_N)$ be the sequence obtained by swapping the P-th through Q-th terms and the R-th through S-th terms of A.
Print the sequence B.

Constraints

- $1 \leq N \leq 100$
- $1 \leq A_i \leq 100$
- $1 \leq P \leq Q < R \leq S \leq N$
- $Q - P = S - R$
- All values in the input are integers.

Input

The input is given from Standard Input in the following format:

N P Q R S
A_1 A_2 $\ldots$ A_N

Output

Print $B_1, B_2, \ldots, B_N$, with spaces in between.

Sample 1

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

Swapping the 1-st through 3-rd terms $(1, 2, 3)$ and the 5-th through 7-th terms $(5, 6, 7)$ of the sequence $A = (1, 2, 3, 4, 5, 6, 7, 8)$ results in $B = (5, 6, 7, 4, 1, 2, 3, 8)$, which should be printed with spaces in between.

Sample 2

Input	Output
5 2 3 4 5 2 2 1 1 1	2 1 1 2 1

The same integer may occur multiple times in the sequence.

Sample 3

Input	Output
2 1 1 2 2 50 100	100 50

Sample 4

Input	Output
10 2 4 7 9 22 75 26 45 72 81 47 29 97 2	22 47 29 97 72 81 75 26 45 2