

## Near's Puzzle

*"Nobody can tell what is right and what is wrong, what is righteous and what is evil. Even if there is a God, and I had his teachings before me, I would think it through and decide if that was right or wrong myself."*

–Near

Near has obsession with solving complex problems and puzzles. He constantly play with various toys, which he uses in his theories.

Once he was solving a puzzle in which there were three integers  $P$ ,  $Q$  and  $R$  ( $P < Q < R$ ). The numbers were not arranged in exact order. In order to solve the puzzle he had to rearrange them in the order given in the puzzle booklet.

### Example:

If the given numbers were 1, 5 and 3 and the puzzle booklet asks to rearrange them in the order PQR. Then the solution of the puzzle will be 1, 3, 5.

### INPUT:

The first line contains three positive integers  $P$ ,  $Q$  and  $R$ , not necessarily in that order. The second line contains three upper case letters 'P', 'Q' and 'R' (with no spaces between them) representing the desired order.

### OUTPUT:

Output  $P$ ,  $Q$  and  $R$  in the desired order in a single line.

### EXAMPLE:

#### INPUT:

1 5 3

PQR

#### OUTPUT:

1 3 5

#### INPUT:

3 2 1

CAB

#### OUTPUT:

312