

## Description

The safest and fairest way to merge cars onto a highway is called “zipper merging”, where cars from two different lanes alternate merging onto a single lane at the point where the first lane ends. This minimizes the average waiting time of each car, and ensures that each car eventually gets onto the highway.

Write a program that will implement this solution. Given two lanes of cars that both need to merge onto a single-lane highway, “zip” the cars together fairly by choosing one from each lane at a time. Always start with the first car from the lane on the left.

When you are finished, print a space-separated list showing the order in which the cars are now driving (assume no passing).

For example, here are two lanes of cars. The first is a list the cars in the left lane, while the second is of the cars on the right:

```
corolla sienna rav  
hatchback prius convertible
```

The first car on the left always goes first in the order, so when the final car goes on the highway, the driving order looks like this:

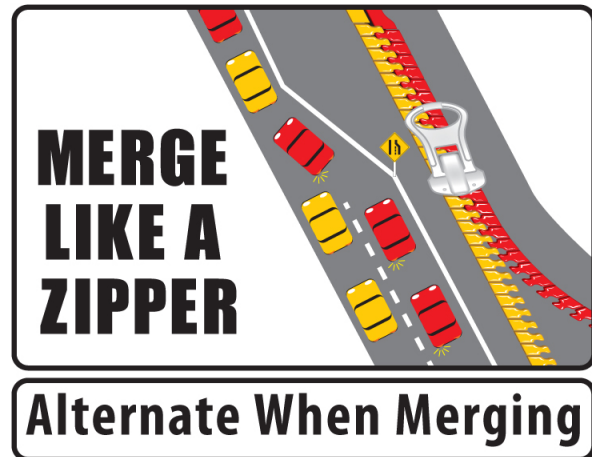
```
corolla hatchback sienna prius rav convertible
```

## Input

The input will consist of two consecutive lines of space-separated car makes or models, representing the  $n \geq 0$  cars in the left lane followed by the  $m \geq 0$  cars in the right lane. The number of cars in each lane need not be the same.

## Output

Print the newly-merged list of cars as a line of space-separated elements.



### Sample Input 1

```
4runner  
corolla
```

### Sample Output 1

```
4runner corolla
```

**Explanation:** Because the 4runner is on the left, it goes first. Then the corolla can merge, as it is the only car left.

---

### Sample Input 2

```
hatchback pickup van matrix  
mercedesbenz micra escape mustang
```

### Sample Output 2

```
hatchback mercedesbenz pickup micra van escape matrix mustang
```

**Explanation:** By “zipping” the cars together, starting from the cars that are already on the highway, we end up with an order that begins with the hatchback and ends with the mustang.

---

### Sample Input 3

```
car van  
snowmobile truck car hatchback
```

### Sample Output 2

```
car snowmobile van truck car hatchback
```

**Explanation:** The right lane is longer than the left, so when the left lane is exhausted, all cars from the right lane are free to go.