

There are  $10^9$  cards lying on a table, where the  $i$ -th card has the value  $i$  ( $1 \leq i \leq 10^9$ ) written on it. Alice picked  $N$  cards from those and then Bob also picked  $N$  cards from the remaining cards. They noticed two interesting properties:

- None of the cards picked by Alice or Bob has any palindromic value written on it
- The sum of values between any one card of Alice and any one card of Bob is always a palindromic number.

Your job is to find one possible selection of cards for both Alice and Bob for  $N = 4400$ . A number is called palindromic if it spells same both forward and backward.

## Input

This problem doesn't have any input.

## Output

The first line of output should contain  $N$  space separated integers denoting the cards picked by Alice. The second line of output should also contain  $N$  space separated integers denoting the cards picked by Bob. You can print any possible solution. The printed numbers must be distinct and have values between 1 and  $10^9$  (inclusive). And also they should satisfy the two properties mentioned above.

The sample output shows one possible output when  $N = 2$ . You need to find a solution for  $N = 4400$ .

## Sample Input

## Sample Output

27 128

94 104