**Code Test 1**

**Inner Reduce Pattern Printing**

Given a number N, the program must print the pattern as described below.

**Input Format:**  
The first line contains the value of the N which represent the number N.

**Boundary Conditions:**  
2 <= N <= 9

**Output Format:**  
The pattern as described below in the Example Input/Output

**Example Input/Output 1:**  
Input:  
4

Output:  
4444444  
4333334  
4322234  
4321234  
4322234  
4333334  
4444444

**Example Input/Output 2:**  
Input:  
3

Output:  
33333  
32223  
32123  
32223  
33333

**Example Input/Output 3:**  
Input:  
7

Output:  
7777777777777  
7666666666667  
7655555555567  
7654444444567  
7654333334567  
7654322234567  
7654321234567  
7654322234567  
7654333334567  
7654444444567  
7655555555567  
7666666666667  
7777777777777

**Code Test 2**

**Friend requests in social network**

In a social network, a person can invite friends of his/her friend. John wants to invite and add new friends. Complete the program below so that it prints the names of the persons to whom John can send a friend request.

**Input Format:**  
The first line contains the value of the N which represent the number of friends.  
Next N lines contain the name of the friend F followed by the number of friends of F and finally their names separated by space.

**Boundary Conditions:**  
2 <= N <= 10

**Output Format:**  
The names to which John can send a friend request.

**Example Input/Output 1:**  
Input:  
3  
Mani 3 Ram Raj Guna  
Ram 2 Kumar Kishore  
Mughil 3 Praveen Naveen Ramesh

Output:  
Raj Guna Kumar Kishore Praveen Naveen Ramesh

Explanation:  
Ram is not present in the output as Ram is already John's friend.

**Example Input/Output 2:**  
Input:  
4  
Arjun 3 Bhuvana Ramya Rajesh  
Naveen 2 Arjun Sangeetha  
Rajesh 3 Narmada Madan Suresh  
Suresh 2 Pawan Adhil

Output:  
Bhuvana Ramya Sangeetha Narmada Madan Pawan Adhil

**Code Test 3**

**Alternate Sorting of Numbers**

Given an array of N integers, rearrange the array in such a way that the first element is first maximum, second element is first minimum, third element is second maximum, fourth element is second minimum and so on.

**Input Format:**  
The first line contains the value of the N integers separated by one or more spaces.

**Boundary Conditions:**  
4 <= N <= 100

**Output Format:**  
The N numbers alternately sorted as per the given instructions.

**Example Input/Output 1:**  
Input:  
1 2 3 4 5 6 7

Output:  
7 1 6 2 5 3 4

**Example Input/Output 2:**  
Input:  
10 99 44 22 56 63

Output:  
99 10 63 22 56 44

**Example Input/Output 3:**  
Input:  
9 5 6 9 3 2 5

Output:  
9 2 9 3 6 5 5