You have a list. This is a special list you carry with you all the time. The list contains the name of your friends in an ordered way. The length of the list is unknown. You can add, delete and update the list. However, the list updating mechanism has an analog super computer to do any operation in the list. It has dialing system to do those mentioned operations.

Dial:

* Insert a friend to your list dial 1 and friend name. It will insert the friend name at the end of the list.
* Dial 2 to unfriend a person with a position from your list.

Friends who are on the left of the list are more close to you.

* Dial 3 to hate friends after a betrayal and close friend to distant friend and distant friends become close friends.
* Dial 4 to remove multiple consecutive friends
* Dial 5 to add a friend to any position of the list
* Dial 6 to add friends of same names serially at the end of the list.
* Dial 7 to correct a friend’s nickname to pet name
* Dial 8 to swap position of two friends in the list
* Dial 9 to remove all of your friends
* Dial 10 to increase the list size
* Dial 11 to remove the last friend of the list
* Dial 0 to create a list with initial friends
* Dial -1 to exit

Print the list after exit the dial system.

**Sample Input:**

0

5

[tamim, shakib, musfiq, riyad, mashrafi]

10 20

9

1 tamim

1 mustafiz

1 nazmul

3

7 nazmul lord

5 1 zakir

**Sample Output:**

zakir lord mustafiz tamim