#include <iostream>

using namespace std;

const int n=100;

class Stack{

private:

int arr[n];

int top;

public:

Stack(){

top=-1;}

bool isEmpty(){

return (top==-1);}

bool isFull(){

return (top+1==n);}

void push(int elem){

if(!isFull()){

arr[++top]=elem;}

}

int pop(){

if(!isEmpty()){

return arr[top--];

}

}

int peek(){

if(!isEmpty()){

return arr[top];

}

}

void display(){

for(int i=top;i>=0;i--){

cout<<arr[i]<<" ";

}

cout<<endl;

}

};

class Queue{

private:

Stack s1,s2;

public:

void enqueue(int elem){

if(s1.isEmpty()){

s1.push(elem);

}

else{

while(!s1.isEmpty()){

s2.push(s1.pop());

}

s1.push(elem);

while(!s2.isEmpty()){

s1.push(s2.pop());

}

}

}

int dequeue(){

return s1.pop();

}

void display(){

s1.display();

}

};

int main(){

Queue q;

while(true)

{

cout<<"enter 1 to push and 2 to pop"<<endl;

int k;

cin>>k;

if(k==1)

{

int j;

cin>>j;

q.enqueue(j);

}

else if(k==2)

{

q.dequeue();

}

else{break;}

}

q.display();

}