#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#define MAX\_SIZE 1000000

int stack[MAX\_SIZE], maxStack[MAX\_SIZE];

int top = -1, maxTop = -1;

void push(int x) {

stack[++top] = x;

if (maxTop == -1 || x >= maxStack[maxTop]) {

maxStack[++maxTop] = x;

}

}

void pop() {

if (top == -1) return;

if (stack[top] == maxStack[maxTop]) {

maxTop--;

}

top--;

}

int getMax() {

return maxTop == -1 ? -1 : maxStack[maxTop];

}

int main() {

int n;

scanf("%d", &n);

while (n--) {

int type, value;

scanf("%d", &type);

if (type == 1) {

scanf("%d", &value);

push(value);

} else if (type == 2) {

pop();

} else if (type == 3) {

printf("%d\n", getMax());

}

}

return 0;

}