package DataTypesAndVariables.Exercise.More;

import java.util.Scanner;

public class BalancedBrackets\_06 {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        int lines = Integer.parseInt(scanner.nextLine());

        int open = 0;

        int closed = 0;

        for (int i = 0; i < lines; i++) {

            String command = scanner.nextLine();

            if (command.equals("(")) {

                open = open + 1;

            }

            if (command.equals(")")) {

                closed = closed + 1;

                if (closed - open != 0) {

                    break;

                }

            }

        }

        if (open == closed) {

            System.out.println("BALANCED");

        } else {

            System.out.println("UNBALANCED");

        }

    }

}