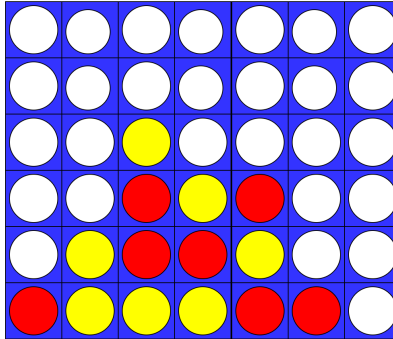


Connect 4

Problem ID: connect4

Connect 4 is a well known two player board game in which two players, Red and Yellow, take turns dropping discs of their respective colors into a 6×7 grid. Each new disc must be placed the lowest available spot in a given column. A player wins a game if they are the first to form a horizontal, vertical, or diagonal line of four discs with the same color.



We assume that Red always plays first. Given the sequence of Red and Yellow's moves, represented by a sequence of integers representing the column played, write a program to determine the winner of the game.

Input

Your program will receive input from standard input.

There will be 42 lines of input, each with a single integer between 1 and 7, representing the column chosen. The first line is Red's first move, the second line is Yellow's first move, the third line is Red's second move, etc.

Output

Your program should write to standard output.

Print exactly one line. If there is a winner, print the winner (either RED or YELLOW) and the winning turn, separated by a single space. Otherwise, print DRAW.

Scoring

There are 50 test cases, each worth 2 points. Your submission score will be the sum of the points you get from each test case you pass.

Sample Input 1

1
1
2
2
3
3
4
4
4
1
1
1
1
2
2
2
2
2
3
3
3
3
4
4
4
4
4
5
5
5
5
5
5
6
6
6
6
6
6
7
7
7
7
7
7

Sample Output 1

RED 7