

Casino

2023/2024 SEASON – SIXTH ROUND



Gruyo just turned 18 and decided to go to a casino. The first game he saw was “Mathematical Roulette”. The casino generates two arrays r_1, r_2, \dots, r_n and b_1, b_2, \dots, b_m . After that every gambler has to bet on which array has a bigger product. (It’s guaranteed they’re not equal)

The casino doesn’t want them to calculate the product, so they have just 1 second to bet, before they lose.

Gruyo decided to bet his entire estate (24 lv) and is begging you to write a program **casino.cpp**, which tells him what array to bet on, so he can win.

Input

The first line of the file **casino.in** contains n and m – the amount of numbers in the array r and the amount of numbers in the array b . The next line contains n numbers r_1, r_2, \dots, r_n – the r array. The next line contains m numbers b_1, b_2, \dots, b_m – the b array.

Output

On the only line of the file **casino.out** print “RED”, if r has a bigger product, or “BLACK”, if b has a bigger product.

Constraints

$$1 \leq n, m \leq 5 * 10^5$$

$$1 \leq r_i, b_j \leq 10^9$$

Time Limit: 1sec.

Memory Limit: 256 MB

Sample Test

Input (casino.in)	Output (casino.out)
3 5 16 8 2 2 10 2 2 3	RED
2 9 172 754 9 8 7 6 5 4 3 2 1	BLACK