Gruyo just turned 18 and decided to go to a casino. The first game he saw was “Mathematical Roulette”. The casino generates two arrays r1,r2,…,rn and b1,b2,…,bm . 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 r1,r2,…,rn – the r array. The next line contains m numbers b1,b2,…,bm – 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)** |
| 3 516 8 22 10 2 2 3 | RED |
| 2 9172 7549 8 7 6 5 4 3 2 1 | BLACK |