

The Ultimate Duel

Input file: **standard input**
Output file: **standard output**
Time limit: 2 seconds
Memory limit: 256 megabytes

Sadly, things have come to this cruel end. There are no other ways the three members of the team Dreadnought could agree with each other on the opinion of girls, they have started an ultimate duel of life and death.

TankEngineer, who is a faithful follower of the doctrine of LoliLoli, believes the grand truth of the universe lies within the cuteness of Lolis: Without the Enlightenment of Loli, war shall rage the world, followed by deadly plague and famine, and in the end, the humanity will go extinct with death. There is no but one true hope - Loli.

AngryBacon, in opposite, thinks Lolicon is a distort of human nature. Little girls, well, are not sexy enough. And worst of all, you have to take care of them in most of the time. Only a decent lady with gorgeous curves and a caring character can be of true beauty and thus be admired. [AD: Please contact him at XOX-OOX-XOXX immediately if you have at least 90-60-82.]

Rowdark, however, can't help but laugh at the ignorance of these two. Human girls, no matter older or younger, are just way too boring. And the only choice any noble gentleman who seeks the true nature of human beings won't fail to see is that [CENSORED]. HAHAHAAAA!

Now the stage has been set, and the first deathmatch is TankEngineer VS AngryBacon. Not surprisingly, the winner is decided by the fairest game in the world: Rock, Paper and Scissors.

Both TankEngineer and AngryBacon would first write a sequence of operations consists of rock, paper and scissors. And then each sequence will be repeated an infinite number of times to reveal the true operation sequence they will adopt. Then the duel starts, the result of each round is decided by the well-known rule of Rock, Paper and Scissors(that is $R>S$, $S>P$, $P>R$). The winner will be the who wins a larger portion of rounds than his opponent in all the rounds.

Since an infinite amount of time is needed to fight an infinite number of rounds one by one, please calculate the winner given the initial sequences of TankEngineer and AngryBacon.

Input

The first line of input contains a string S consists of only uppercase letters **R**, **P** and **S** which represents the initial sequence of TankEngineer.

The second line contains a string T also consists of **R**, **P** and **S** which represents the initial sequence of AngryBacon.

It is guaranteed that $1 \leq |S|, |T| \leq 10^5$.

Output

Print the name of the final winner "TankEngineer" or "AngryBacon" (without quotes) in a single line. In case of a tie, print "Rowdark" instead (He wins as the other two killed each other, also without quotes).

Examples

standard input	standard output
R S	TankEngineer
RPSSPR RSR	AngryBacon
PPPSSRRR R	Rowdark