ShaKer 2018 Coding Battle

A. « Loot Sharing »

Problem

Pirates are not lawless barbarians as some believe. They even have a hierarchy that allows them to decide how many gold coins they deserve, when sharing the loot. Even you, the greatest pirate the Caribbean have known, must observe the law. *"Code is the law"* – Captain Edward Teague.

The pirate hierarchy is based on the type of hat they wear, because every true pirate wears a hat, either a Bicorn (a hat with two sides of the brim turned up) or a Tricorn (three sides turned up).

— Pirates with a Bicorn deserve 2 gold coins each when sharing the loot ;
— Pirates with a Tricorn deserve 3 gold coins each when sharing the loot.

After a sack, the party and sharing of the loot are sacred rituals, and if a crew member doesn't receive their part of the loot, you risk to have your head cut off... The crew is impatient to receive their share, but is there even enough gold for everybody ? You decide the following :

— If there are enough gold coins for everybody, you will give everyone their share before opening the barrels of rhum ;
— If there are not enough gold coins, you will first open the barrels of rhum to put everybody in a good mood and reduce the risk of losing your head...

Your ship

Given that there are B pirates with a Bicorn, T pirates with a Tricorn, and the loot contains N gold coins, should you first open the barrels of rhum or share the loot ?

Input

On 3 lines :
— An integer $0 \leq B \leq 10^5$: the number of pirates wearing a Bicorn ;
— An integer $0 \leq T \leq 10^5$: the number of pirates wearing a Tricorn ;
— An integer $1 \leq N \leq 10^6$: the number of gold coins.

Output

— `RHUM!` if you should first open the barrels of rhum or `LOOT!` if you should first share the loot.

Note : there is no space between the word and the exclamation mark.

Examples

Example 1

Input
4 2 19

Output
LOOT!

Example 2

Input
6 8 24

Output
RHUM!

Example 3

Input
2 1 7

Output
LOOT!