Problem 1 - Black Flag

Problem for exam preparation for the Programming Fundamentals Course @SoftUni.
Submit your solutions in the SoftUni judge system at https://judge.softuni.org/Contests/Practice/Index/1773#0.

Pirates are invading the sea, and you're tasked to help them plunder

Create a program that checks if **target plunder** is **reached**. First, you will receive how many **days** the pirating lasts. Then you will receive how much the pirates **plunder for a day**. Last you will receive the **expected plunder** at the end.

Calculate how much **plunder** the pirates manage to **gather**. Each **day** they gather the **plunder**. Keep in mind that they attack more ships every third day and add additional plunder to their total gain, which is **50% of the daily plunder**. Every **fifth day** the pirates encounter a warship, and after the battle, they **lose 30%** of their **total plunder**.

If the gained plunder is **more or equal** to the target, print the following:

`"Ahoy! {totalPlunder} plunder gained."`

If the gained plunder is **less** than the target. Calculate the **percentage left** and print the following:

`"Collected only {percentage}% of the plunder."`

Both numbers should be **formatted** to the **2nd decimal place**.

Input

- On the **1st line,** you will receive the **days** of the plunder – an **integer number** in the range [0…100000]
- On the **2nd line,** you will receive the **daily plunder** – an **integer number** in the range [0…50]
- On the **3rd line,** you will receive the **expected plunder** – a **real number** in the range [0.0…10000.0]

Output

- In the end, print whether the plunder **was successful** or **not,** following the format **described above**.

Examples

Input	Output
5 40 100	`Ahoy! 154.00 plunder gained.`
Comments	
The days are 5, and the daily plunder is 40. On the third day, the total plunder is 120, and since it is a third day, they gain an additional 50% from the daily plunder, which adds up to 140. On the fifth day, the plunder is 220, but they battle with a warship and lose 30% of the collected cargo, and the total becomes 154. That is more than expected.	
10	`Collected only 36.29% of the plunder.`

20 380	

JS Examples

Input	Output
(["5", "40", "100"])	Ahoy! 154.00 plunder gained.
Comments	
The days are 5, and the daily plunder is 40. On the third day, the total plunder is 120, and since it is a third day, they gain an additional 50% from the daily plunder, which adds up to 140. On the fifth day, the plunder is 220, but they battle with a warship and lose 30% of the collected cargo, and the total becomes 154. That is more than expected.	
(["10", "20", "380"])	Collected only 36.29% of the plunder.