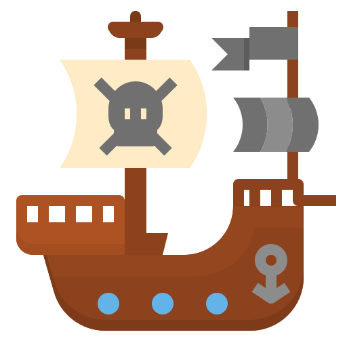
# Black Flag



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

Create a program that checks if a **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 **plunder**.

Keep in mind that every **third day** they attack more ships and they **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 the expected. | |
|  | |
| 10  20  380 | Collected only 36.29% of the plunder. |