# Problem 1 – Splinter Trip

**Sam the Spy** just got his shiny new military aircraft, the **C-147B Paladin**, and a shiny new mission to carry out. The problem is, he needs to fly there using the Paladin, and you're going to help him with **calculating the fuel consumption** and **total flight time**.

The Paladin, being a big plane, **consumes** a lot of **fuel** - **25L per mile** to be exact.

Also, before taking off, the commanding Fuel Consumption Officer (you) needs to calculate the **miles traveled in heavy winds**. **Heavy** **winds** need **1.5 times more fuel**.

Finally, since fuel consumption is always going to **vary** a little, we need to have a **bit more fuel** just in case. So, the **total fuel amount** we put in needs to **increase by 5%**.

When we calculate the fuel consumption, we need to print it on the console in the following format:

* “Fuel needed: {totalFuelNeeded}L”

After all of these calculations, we need to see if the **fuel in the tank** will be **enough**:

* If it’s enough, print:
  + “Enough with {remainingFuel}L to spare!”
* If the fuel won’t be enough, print:
  + “We need {fuelNeeded}L more fuel.”

All **floating-point** numbers in the output are **rounded to the second decimal place**.

### Input

* First line – the **trip distance** in **miles** – **floating-point number** in **range [1.00…250000.00]**.
* Second line – the **fuel tank capacity** in **liters** – **floating-point number** in **range [1.00…100000.00]**.
* Third line – the **miles spent in heavy winds** – **floating-point number** in **range [0.00…50000.00]**.

### Output

* First line – The **total fuel consumption** – **rounded to the second decimal place**
* Second line – whether the plane will have **enough fuel**

All the output needs to be as per the formats stated **above**.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 500.5  14000  50 | Fuel needed: 13794.38L  Enough with 205.63L to spare! | Travel distance – **500.5** miles  Fuel tank capacity – **14000** liters  Miles in heavy winds – **50**  Miles in non-heavy winds – **500.5-50** 🡺 **450.5**  Non-heavy winds consumption – **450.5\*25** 🡺 **11262.5** liters  Heavy winds consumption – **50\*(25\*1.5)** 🡺 **1875** liters  Fuel consumption 🡺 **11262.5+1875** 🡺 **13137.5** liters  Tolerance – **13137.5\*5%** 🡺 **656.875** liters  Total Fuel Consumption 🡺 **13137.5+656.875** 🡺 **13794.375** liters  Remaining fuel – **14000-13794.375** 🡺 **205.625** liters (enough) |
| 9000  235000  230 | Fuel needed: 239268.75L  We need 4268.75L more fuel. | Travel distance – **9000** miles  Fuel tank capacity – **235000** liters  Miles in heavy winds – **230**  Miles in non-heavy winds – **9000-230** 🡺 **8770**  Non-heavy winds consumption – **8770\*25** 🡺 **219250** liters  Heavy winds consumption – **230\*(25\*1.5)** 🡺 **8625** liters  Fuel consumption 🡺 **219250+8625** 🡺 **227875** liters  Tolerance – **227875\*5%** 🡺 **11393.750** liters  Total Fuel Consumption 🡺 **227875+11393.750** 🡺 **239268.750** liters  Remaining fuel – **235000-239268.750** 🡺 -**4268.750** liters (not enough) |
| 1000  26250  0 | Fuel needed: 26250.00L  Enough with 0.00L to spare! | Travel distance – **1000** miles  Fuel tank capacity – **26250** liters  Miles in non-heavy winds – **1000**  Non-heavy winds consumption – **1000\*25** 🡺 **25000** liters  Fuel consumption – **25000** liters  Tolerance – **25000\*5%** 🡺 **1250** liters  Total Fuel Consumption 🡺 **25000+1250** 🡺 **26250** liters  Remaining fuel – **26250-26250** 🡺 **0** liters (enough) |