# Problem 2 - Space Travel



*The Earth was attacked by an extraterrestrial force, the military is fighting the enemy, but civilians need to be boarded and transported to Titan, a newly colonized planet.*

You will be given **three lines** of inputs:

* A **string** representing the **travel route to Titan**, separated by pipes **"||"**. The first element will be a **command**, and the second element will be **an integer**.
* An **integer** represents the starting amount of **fuel**.
* An **integer** represents the starting amount of **ammunition**.

The commands are as follows:

* **Travel {light-years}** – the spaceship traveled the given distance. For every **light-year** traveled **one** **point** of **fuel** is consumed.
  + If the spaceship has enough **fuel to travel** the given distance print:

**"The spaceship travelled {distance} light-years."**

* + If the **fuel is not enough**, print **"Mission failed."** on the console and **stop** the program.
* **Enemy {enemy's armour}** – the spaceship encounters an **enemy** and has the option to **fight** or **run**.
  + If the **ammunition is enough** (current **ammunition count** is equal or more than **enemy's armour**), all the ammunitions needed are **fired** (one round of ammunition for every one point of enemy's **armour**) and the following message is **printed**:

**"An enemy with {enemyPoints} armour is defeated."**

* + If the ammunition is not enough, the spaceship **should try to run**, where for each **enemy's armour point** the spaceship consumes **2 fuel points**. If the spaceship menages to run away the following message is printed:

**"An enemy with {enemyPoints} armour is outmaneuvered."**

* + If **fight** or **run** is not possible, print:

**"Mission failed."** and stop the program.

* **Repair {number of ammunition and fuel added}** – the given amount of **fuel is added** to the spaceship's total fuel. For the ammunition, the given amount is **multiplied by 2** and added to the spaceship's total ammunitions and two lines are printed:

**"Ammunitions added: {added amount of ammunitions}."**

**"Fuel added: {added amount of fuel}."**

* **Titan** – the spaceship reaches **Titan**, you should print:

**"You have reached Titan, all passengers are safe."** and stop the program.

### Input

* On the **first line**, a string representing the rout, separated with **"||"**: **"route1||route2||route3…"**.
* On the **second line**, you will receive an integer representing **the starting amount of fuel**.
* On the **third line**, you will receive an integer representing **the starting amount of ammunition**.

### Output

After each command print the suitable message.

### Constraints

* All the given numbers will be valid integers in the range **[0, 1000]**.
* All the commands will be valid.

### Examples

|  |  |
| --- | --- |
| ****Input**** | ****Output**** |
| **Travel 10||Enemy 30||Repair 15||Titan**  **50**  **80** | **The spaceship travelled 10 light-years.**  **An enemy with 30 armour is defeated.**  **Ammunitions added: 30.**  **Fuel added: 15.**  **You have reached Titan, all passengers are safe.** |
| ****Comment**** | |
| The first command is **Travel**, the spaceship has enough fuel, so it travelled 10 light-years.  The next command is **Enemy**, the spaceship has enough ammunition (**30 needed**) for fighting the enemy.  The next command is **Repair**, so the spaceship adds **30 ammunitions** and **15 fuel**.  The last command is **Titan**, the final destination is reached and the program stops. | |
| **Input** | **Output** |
| **Travel 20||Enemy 50||Enemy 50||Enemy 10||Repair 15||Enemy 50||Titan**  **60**  **100** | **The spaceship travelled 20 light-years.**  **An enemy with 50 armour is defeated.**  **An enemy with 50 armour is defeated.**  **An enemy with 10 armour is outmaneuvered.**  **Ammunitions added: 30.**  **Fuel added: 15.**  **Mission failed.** |

**JS Examples**

The input will be an array of **three strings**.

|  |  |
| --- | --- |
| **Input** | **Output** |
| ([ 'Travel 10||Enemy 30||Repair 15||Titan',  '50',  '80' ]) | **The spaceship travelled 10 light-years.**  **An enemy with 30 armour is defeated.**  **Ammunitions added: 30.**  **Fuel added: 15.**  **You have reached Titan, all passengers are safe.** |
| **Comments** | |
| The first command is **Travel**, the spaceship has enough fuel, so it travelled 10 light-years.  The next command is **Enemy**, the spaceship has enough ammunition (**30 needed**) for fighting the enemy.  The next command is **Repair**, so the spaceship adds **30 ammunitions** and **15 fuel**.  The last command is **Titan**, the final destination is reached and the program stops. | |
| **Input** | **Output** |
| ([ 'Travel 20||Enemy 50||Enemy 50||Enemy 10||Repair 15||Enemy 50||Titan',  '60',  '100' ]) | **The spaceship travelled 20 light-years.**  **An enemy with 50 armour is defeated.**  **An enemy with 50 armour is defeated.**  **An enemy with 10 armour is outmaneuvered.**  **Ammunitions added: 30.**  **Fuel added: 15.**  **Mission failed.** |