# "Programming Basics" Exam

## 4. Movie Stars

The accountant of the "Star City" cinema center hires you to write a program that calculates the salaries of the actors. Each production has a **budget** for actors. Until the "**ACTION**" command is given, you will receive the **name of the actor** and **their** **salary**. If the actor's name is **longer than 15 characters**, their salary will be **20%** of the **remaining budget at that point**. If the budget **runs out** at any point, the **program should stop**.

### Input

First, read **one line** from the console:

* Budget for actors – **a floating-point number** in the range **[1000.0... 2 100 000.0]**

Then one or two lines are read repeatedly until the command "**ACTION**" or until the budget runs out:

* Actor`s name – **a string**

If the actor name contains less than or equal to 15 characters:

* + Salary – **a floating-point number** in the range **[250.0… 1 000 000.0]**

### Output

Print one line on the console:

* If the budget is enough :

**"We are left with {budget left} USD."**

* If the budget is **NOT** enough:

**"We need {budget needed} USD for our actors."**

The result must be **formatted to the second digit after the decimal point!**

### Sample Input and Output

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 90000  Christian Bale  70000.50  Leonard DiCaprio  Kevin Spacey  24000.99 | We need 8001.39 USD for our actors. | The budget is **90000 USD.**  After the fee of the **first actor**:  90000 - 70000.50 = **19999.5 USD**  The name of the second actor is longer than 15 characters **=**> **20%** of 19999.5 **= 3999.9 USD**  19999.5 – 3999.9 **=** **15999.6** USD after the second actor.  The salary of the last actor is **24000.99 USD**  **=>** 15999.6 – 24000.99 **= - 8001.39 USD**  **The budget is not enough**. |
| 170000  Ben Affleck  40000.50  Ashton Kutcher  80000  Tom Hanks  2000.99  ACTION | We are left with 47998.51 USD. |  |