# Резултат с изображение за Policeman pngРезултат с изображение за Policeman pngTravelling Policeman

You are working in the SPD – Sofia Police Department. Currently the SPD is suffering from lack of resources, so you need to do more work. Your job is to **patrol while keeping your car in the best condition possible**. Of course, it's more rewarding to catch Pokémon's, so that's what you do. You are given a car with **limited amount of fuel**. You will be given the **possible streets to patrol** for the shift and **information** about **each** **street**. It will contain the **length of the street**, the **count of Pokémon's on it** and the **damage** it will deal **to your car**. **1 unit of length costs 1 fuel**. The **car damage is important**, because you don't want to destroy your car for a single Pokémon.

How to make your decisions? This will be your formula. **Multiply** the **count** of **Pokémon's** by **10** and **subtract the car damage**. Example:

Street Info – **Length 4**, **4 Pokémon's, 6 car damage** -> The value of the Pokémon's is **40**. Subtract the car damage and you get **34**. This will be the **value** you want to **maximize** **based on the fuel** you have. If you receive a street with **negative** **value**, ignore it.

Your report must contain the following information

* **All** **streets** that you are going to **patrol** in the order of receiving them
* Total Pokémon's caught
* Total car damage dealt
* The **remaining fuel** after the shift

## Input

* The **first line** holds an integer **f** – the remaining fuel in the car
* On the **next lines**, you will receive the streets in the format below, until receiving the "End" command
  + {street name}, {car damage}, {pokemon count}, {length}

## Output

* On the first line, you need to print **all streets that you will check in order of appearance**
  + {street name} -> {street name} -> …
* On the second line, you need to print the Pokémon count
  + "Total Pokémon's caught -> {count}"
* On the third line, print the car damage
  + "Total car damage -> {damage}"
* On the last line, you need to print the **remaining fuel**
  + "Fuel left -> {fuel}"

## Constraints

* The **fuel** – **f** will be an integer in the range [**0**…**1000**]
* The **number** **of** **streets** will be an integer in the range [**0**…**1000**]
* The **street length** will be an integer in the range [**0**…**1000**]
* The **Pokémon count per street** will be an integer in the range [**0**…**100**]
* The **car damage** per street will be an integer in the range [**0**…**1000**]
* Time limit: **100 ms**. Allowed memory: **16 MB**

## Examples

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| **Input** | **Output** |
| 4  Street 1, 10, 4, 1  Street 2, 50, 8, 3  Street 3, 0, 2, 2  Street 4, 70, 5, 4  End | Street 1 -> Street 2  Total pokemons caught -> 12  Total car damage -> 60  Fuel Left -> 0 |
| 10  Tintiava, 50, 10, 3  Nikolai Haitov, 10, 4, 3  Samokov, 10, 6, 5  Jetvarka, 0, 1, 2  132, 40, 4, 3  End | Tintiava -> Samokov -> Jetvarka  Total pokemons caught -> 17  Total car damage -> 60  Fuel Left -> 0 |
| 5  Tintiava, 4, 1, 2  Nikolai Haitov, 3, 3, 3  Samokov, 3, 2, 3  132, 10, 3, 1  End | Nikolai Haitov -> 132  Total pokemons caught -> 6  Total car damage -> 13  Fuel Left -> 1 |
| 10  DoNotPickMe, 50, 1, 5  End | Total pokemons caught -> 0  Total car damage -> 0  Fuel Left -> 10 |