

## Pokemon

Mirko quickly got tired of Jetpack Joyride and started playing Pokémon GO! on his phone. One of the curiosities of this game is the so-called evolution of Pokémon.

In order to evolve Pokémon of species  $P_i$ , Mirko must provide  $K_i$  candy intended for a Pokémon of that species. After the evolution of that Pokémon, he gets 2 candies back. Pokémon can evolve only with the help of candy intended for their species.

Mirko has  $N$  species of Pokémon and  $M_i$  candy for Pokémon of species  $P_i$  and wants to know how many total Pokémon he can evolve.

He also wants to know which Pokémon can evolve the most number of times. If there are multiple such Pokémon, output the one with the smallest Pokédex number. In other words, the one that appears earliest in the input data.

### Input

The first line of input contains the integer  $N$  ( $1 \leq N \leq 70$ ), the number of Pokémon species. The following  $2N$  lines contains  $N$  sets of data, wherein it holds:

- line  $2i$  contains string  $P_i$ , 20 characters long at most, the name of the  $i^{\text{th}}$  Pokémon species;

- line  $2i+1$  contains integers  $K_i$  ( $12 \leq K_i \leq 400$ ) and  $M_i$  ( $1 \leq M_i \leq 10^4$ ), the number of candy necessary for the evolution of one Pokémon of the  $i^{\text{th}}$  species and the total number of candy Mirko has for Pokémon of the  $i^{\text{th}}$  species

### Output

The first line of output must contain the total number of Pokémon that Mirko can evolve. The second line of output must contain the name of the Pokémon that can evolve the most number of times.

**Sample input****Sample output**

4 Caterpie 12 33 Weedle 12 42 Pidgey 12 47 Rattata 25 71	14 Weedle
7 Bulbasaur 25 74 Ivysaur 100 83 Charmander 25 116 Charmeleon 100 32 Squirtle 25 1 Wartortle 100 173 Pikachu 50 154	11 Charmander

**Clarification of the first test case**

Let's describe how Mirko evolved Weedles. For Weedles' first evolution, Mirko spent 12 candy, but got back 2, so he has 32 candy left ( $42-12+2$ ). After the second evolution, he is left with 22 candy. After the third evolution, he had 12 candy, which was enough for just one more evolution. This way, Mirko evolved 4 Weedles.

Similarly, we see that Mirko can evolve at most 3 Caterpies, 4 Pidgeys and 3 Rattatas.

Out of all Pokémon, Weedle and Pidgey evolved the most number of times, but Weedle's Pokédex number is smaller (it appears earlier in the input data), so it is the solution of the second part of the task.