

# Programming Fundamentals with Python

24 March 2019

Submit your solutions in the SoftUni judge system at <https://judge.softuni.bg/Contests/Practice/Index/1590#0>.

## Problem 1. Build a building

We are going to try to build a building. For that we will receive the budget, of course we have initial capital –  $m$  and after that we will receive  $n$  – the number of investors who are interested to take place in our project. In the next  $n$  lines we will receive numbers (one at a row) – the money which investors want to give us. For every investor we must print information in the following format:

**'Investor {number} gave us {money\_given}.'**

***Where {money\_given} is formatted two digits after the decimal point.***

If at some point we have enough money to build our building we should stop taking investors money and print:

**'We will manage to build it. Start now! Extra money - {extra\_money}.'**

If we didn't collect enough capital after all investors' money we must print:

**'Project cannot start. We need {money} more.'**

## Input

You will receive on the first 3 lines:

- **budget** – the budget we need to build the building [floating number]
- **m** – the initial capital we have [floating number]
- **n** – number of investors [integer number]

For each investor you will receive:

- **money** – The money that this investor has given to us [floating number]

## Output

If you have enough money at some point

- **„We will manage to build it. Start now! Extra money - {extra\_money}."**

Where **extra\_money** is the money which has left, formatted two digits after decimal point

If you do not have enough money after all investors have invested print:

- **„Project can not start. We need {difference} more."**

Where **{money}** is the money you need to reach the planned budget, formatted two digits after decimal point.

## Example input/output

Вход	Исход	Объяснения
2250000 675000 3 1000000 750000 450000	Investor 1 gave us 1000000.00. Investor 2 gave us 750000.00. We will manage to build it. Start now! Extra money - 175000.00.	The budget we need is 2250000. We have initial capital of 675000. We have 3 investors, so we start taking money. $675000 + 1000000 = 1675000$ $1675000 + 750000 = 2425000$ This is enough money, so we print the information and stop collecting money.
15000000 300000.99 2 2000000.37 8000000.25	Investor 1 gave us 2000000.37. Investor 2 gave us 8000000.25. Project can not start. We need 4699998.39 more.	