# "Programming Basics" Exam

## 2. Deer of Santa

Santa loves to travel, but unfortunately, it happens that just before he goes on holiday three of his deer get sick and he has to leave them behind. When he leaves, he has to consider how much food to leave for each of the deer so that they don't go hungry. **Write a program that calculates whether the food left by Santa will be enough for the time he will be away**. Each deer eats a certain amount of food per day.

### Input Data

**Five lines** are read from the console:

* First line– **number of days Santa is away** – **an integer** in the range **[1…5000]**
* Second line– **food left in kilograms** – **an integer** in the range **[0…100000]**
* Third line – **food per day for the first deer in kilograms** – **a floating-point number** in the range **[0.00…100.00]**
* Fourth line – **food per day for the second deer in kilograms** – **a floating-point number** in the range **[0.00…100.00]**
* Fifth line – **food per day for the third deer in kilograms** – **a floating-point number** in the range **[0.00…100.00]**

### Output Data

**One line** should be printed on the console:

* If the food left **IS enough**:
  + “{remaining kilograms} kilos of food left.”
    - The result should be rounded to the LOWER integer
* If the food left is **NOT enough**:
  + “{kilograms needed} more kilos of food are needed.”
    - The result should be rounded to the HIGHER integer

### Sample Input and Output

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 2  10  1  1  2 | 2 kilos of food left. | **Food needed for:**  **First deer => 2 days \* 1 kg = 2 kg**  **Second deer => 2 days \* 1 kg = 2 kg**  **Third deer => 2 days \* 2 kg = 4 kg**  **Total food needed => 2 + 2 + 4 = 8 kg**  **8 < 10 => amount of food is enough**  **=> 10 - 8 = 2 kg food left** |
| **Input** | **Output** | **Comments** |
| 5  10  2.1  0.8  11 | 60 more kilos of food are needed. | **Food needed for:**  **First deer = 5 days \* 2.1 kg = 10.5 kg**  **Second deer = 5 days \* 0.8 kg = 4 kg**  **Third deer = 5 days \* 11 kg = 55 kg**  **Total food needed => 10.5 + 4 + 55 = 69.5 kg**  **69.5 > 10 => amount of food is not enough**  **=> 69.5 – 10 = 59.5 ~ 60 kg food needed** |