**Bonus System**

*SoftUni has a bonus system for its students. The bonus is being calculated in a certain way and your task is to automatize this process.*

Create a program that calculates **bonus points** for each **student**, for a certain **course**. On the first line, you are going to receive **the count of the students** for this course. **On the second line**, you will receive **the count of the lectures** in the course. Every course has **an additional bonus**. You are going to receive it **on the third line**. On the next lines, you will be receiving the **count of attendances** **for each student**.

The bonus is calculated with the following **formula**:

**{totalBonus} = {studentAttendances} / {courseLectures} \* (5 + {additionalBonus})**

Round the number to **the nearest bigger number**. Find the student with the **maximum bonus** and print him/her, along with **his attendances** in the following format:

**“The maximum bonus score for this course is {maxBonusPoints}. The student has attended {studentAttendances} lectures.”**

## Input / Consrtaints

* On the **first line** you are going to receive the count of the students – an integer number in the range [0…50]
* On the **second line** you are going to receive the count of the lectures – an integer number in the range [0...50].
* On the **third line** you are going to receive **the initial bonus** – an integer number in the range [0….100].
* **On the next lines**, you will be receiving the **attendances of each student**.
* There will **never** be **students with equal bonuses**.

## Output

* Print the maximum bonus points along with the attendances of the given student, **rounded** to the nearest **bigger** number, scored by a student in this course in the format described above.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 5  24  30  12  19  24  16  20 | The maximum bonus score for this course is 35.The student has attended 24 lectures. |
| **Comments** | |
| First, we receive the **number of students** enrolled in the course – **5**. The total count of the lectures is **25** and the initial bonus is **30**. Then we calculate the bonus of the student with 12 attendances, which is **17.5**. We continue calculating **each of the student’s bonuses**. The one **with 24 attendances** has the **highest bonus – 35**, so we print the appropriate message on the console. | |
| 10  30  14  8  23  27  28  15  17  25  26  5  18 | The maximum bonus score for this course is 18.The student has attended 28 lectures. |