**Problem 1 - Bonus Scoring System**

Problem for exam preparation for the [Programming Fundamentals Course @SoftUni](https://softuni.bg/courses/programming-fundamentals-csharp-java-js-python).

Submit your solutions in the SoftUni judge system at <https://judge.softuni.org/Contests/Practice/Index/2028#0>.

Create a program that calculates **bonus points** for each **student** enrolled in a course. On the **first** line, you are going to receive **the number of the students**. On the **second** line, you will receive **the total number of lectures** in the course. The course has **an additional bonus**, which you will receive **on the third line**. On the following lines, you will be receiving the **count of attendances** **for each student**.

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

**{total bonus} = {student attendances} / {course lectures} \* (5 + {additional bonus})**

Find the student with the **maximum bonus** and print them, along with **his attendances,** in the following format:

**"Max Bonus: {max bonus points}."**

**"The student has attended {student attendances} lectures."**

Round the bonus points at the end to **the nearest larger number**.

### Input / Constrains

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

### Output

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

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 5  25  30  12  19  24  16  20 | Max Bonus: 34.  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 additional bonus is **30**. Then we calculate the bonus of the student with 12 attendances, which is **16.8**. We continue calculating **each of the student's bonuses**. The one **with 24 attendances** has the **highest bonus – 33.6 (34 rounded)**, so we print the appropriate message on the console. | |
| 10  30  14  8  23  27  28  15  17  25  26  5  18 | Max Bonus: 18.  The student has attended 28 lectures. |

### JS Input / Output

|  |  |
| --- | --- |
| **Input** | **Output** |
| [  '5', '25', '30',  '12', '19', '24',  '16', '20'  ] | Max Bonus: 34.  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 additional bonus is **30**. Then we calculate the bonus of the student with 12 attendances, which is **16.8**. We continue calculating **each of the student's bonuses**. The one **with 24 attendances** has the **highest bonus – 33.6 (34 rounded)**, so we print the appropriate message on the console. | |
| [  '10', '30', '14', '8',  '23', '27', '28', '15',  '17', '25', '26', '5',  '18'  ] | Max Bonus: 18.  The student has attended 28 lectures. |