Problem 1. Bonus Scoring System

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**:

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

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

```
"Max Bonus: {maxBonusPoints}."
"The student has attended {studentAttendances} lectures."
```

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

Input / Constrains

- 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 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 initial 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.