**PROBLEMS**

1. **Predict the mess.**
2. **Nth most re-pattern**
3. **Car show room**

**Predict the mess**

Ram and Tarun are solving a puzzle of numbers. They are about to get the solution of the puzzle. But Venkat created some mess in the puzzle which leaded to form a series of numbers when given 2 numbers as input. Help them to crack the mess.

**Input Format**

S, Positive Integer

P, Positive Integer

**Constraints**

S<2000000

P<S

**Output Format**

Space separated Series

**Sample Test Cases:**

**Input 1:**

25

3

**Output:**

30 1001 7429

**Input 2:**

60

2

**Output:**

6 35 143 323 667 1147 1763 2491 59

**Nth most re-pattern**

Given a string which is space separated we have to the find the number of nth most repeating alphabet in that string.  
By using that number we have to print a special pattern with “**.**”

**Input Format**

S, string

N, nth most repeating element

**Constraints**

|s|<1000

**Output Format**

Pattern with **.**

**Sample Test Cases:**

**Input 1:**

Hello hi

2

**Output:**

**...**

**.**

**Input 2:**

Aaaaaaaaassssddddeeeeee

1

**Output:**

.................

. .

. .

. .

. .

. .

. .

. .

.

**Car show room:**

Tarun and Venkat has been given a task to develop a website for a car show room. The page consists of 4 options.  
1. Buy a Car:

* Where buyer enters his name
* Car name
* Car price

2. Names of the car bought by a person

3. cars sold in the showroom sorted by their price

4. List of persons who bought the car given a car name.

Before these options there should be no of attempts of working on the website.

Note: If no data is present print data not found

**Input Format:**

T, No of attempts

Next T lines will have to enter numbers between 1-4.

If Input is 1:

Name of person

Name of car

Price of car

If input is 2:

Name of the person

If input is 4:

Name of the car

**Constraints**

T<15

**Output Format**

If input is 2:

Name of Car/Cars separated by “,”

If input is 3:

Name of car:price of car sorted and separated by “,”

If input is 4:

Name of persons separated by “,”

**Sample Test Cases:**

**Input 1:**

500

**Output:**

6

515

**Input 2:**

1500

**Output:**

7

4603

Hello 32,  
          You are **last** step closer to the grand hackathon of our CODE3000.

This is the last chance for you to get your codes right and enter into top 10.  
Try the best of you for this last round. All the best.  
          **The link for challenge 3 is provided below and don’t share this link other members who are not qualified.  
  
Hackerrank link:** [www.hackerrank.com/code3000-3-0](https://www.hackerrank.com/code3000-3-0)  
  
Thank you,  
Think hard, Code smart.  
All the best.