Q1 Find the Second Largest Number

You have been given the task to accept integers from users seperated by space in a single line.Input is terminated when you press enter key.Display the Second largest integer from the user .

Constraints -100<=A[i]<=100

Sample Input

2 3 6 5 5

Sample Output

5

Sample Input

10 7 10

Sample output

7

Q2. Parking problem

Riya wants to park her car in the 1 st  freely available slot in the mall's parking lot (if it is available) or in the ground adjacent to the mall. There are 4 basements:- B1, B2, B3 and B4. Assume that only when B1 is full, cars would be allowed to be parked in B2 and so on. The number of cars that can be parked in the basements B1, B2, B3 and B4 are N1, N2, N3 and N4. The total number of cars parked in the parking lot currently is N.

[Assume that no other car is in queue to get parked and no other car leaves at this time].

Input Format:

Input consists of 5 integers corresponding to N1, N2, N3, N4 and N.

Output Format:

Output consists of a string which is either 'B1' or 'B2' or 'B3' or 'B4' or 'EXT'. EXT corresponds to external parking in the adjacent ground.

Sample Input 1:

50

50

40

40

120

Sample Output 1:

B3

Q3. Nitika was once reading a history book and wanted to analyze it. So she asked her brother to create a list of names of the various famous personalities in the book. Her brother gave Nitika the list. Nitika was furious when she saw the list. The names of the people were not properly formatted. She doesn't like this and would like to properly format it.

A name can have at most three parts: first name, middle name and last name. It will have at least one part. The last name is always present. The rules of formatting a name are very simple:

Only the first letter of each part of the name should be capital. All the parts of the name except the last part should be represented by only two characters. The first character should be the first letter of the part and should be capitalized. The second character should be ".". Let us look at some examples of formatting according to these rules:

gandhi -> Gandhi

mahatma gandhI -> M. Gandhi

Mohndas KaramChand ganDhi -> M. K. Gandhi

Input The first line of the input contains an integer T denoting the number of test cases. The only line of each test case contains the space separated parts of the name. Output For each case, output the properly formatted name.

Constraints 1 <= T <= 100 2 <=Length of each part of the name <= 10 Each part of the name contains the letters from lower and upper case English alphabets (i.e. from 'a' to 'z', or 'A' to 'Z')

Example

Input:

3

gandhi

mahatma gandhI

Mohandas KaramChand gandhi

Output:

Gandhi

M. Gandhi

M. K. Gandhi

Additional Explanation

In sample Output

M. Gandhi

note that between . and Gandhi there has to be a space

Similarly for

M. K. Gandhi there has to be a space between . and K and between . and Gandhi

Q4.