

# More Practice Questions

Please write these functions using higher order functions like map, filter, lambda, flip, zip, compose etc . Do write these codes and also run these into gofer console and see if its running or not.

Please complete these questions and practise it by tomorrow

## Question 1

Create a function which takes a list of tuples of (Int,Int) type and returns the list of product of those numbers in tuples

Example Input	Example Output
<code>((3,4),(5,3),(6,2),(100,2))</code>	<code>[12,15,12,200]</code>

## Question 2

Write a function which takes a list of names (String) does 3 things

Step 1 : Removes all the single names (which are single words)

Step 2 : Capitalize the First Letter of name like "abhay gupta" becomes "Abhay Gupta" and then puts the name along with length of name in tuple)

**Example Input**

```
["Preeti" , "abhay" , "abhay gupta", "neeraj kumar  
singh","Ajay","ravi Saxena"]
```

#### **Example Output**

```
[("Abhay gupta",11),("Neeraj kumar singh",18),("Ravi Saxena",11)]
```

### **Question 3**

Write a function which take the list of list of numbers and adds the 2nd element with the square of last element of each list

#### **Example Input**

```
[[1,2,3,4,5],[5,3,4,2],[6,3,4],[7,8]]
```

#### **Out put**

```
[28,7,22,56]
```

### **Question 4**

Write a function which takes a list of numbers and returns TRUE or FALSE if its sorted.

```
[1,3,5,6,6,9] -> True  
[1,13,52,61,64,900] -> True  
[1,3,8,6,1,5] -> False
```

### **Question 5**

Write a function which takes a list of numbers and returns TRUE or FALSE if its sorted.

```
[1,3,5,6,6,9] -> True  
[1,13,52,61,64,900] -> True  
[1,3,8,6,1,5] -> False
```

