**Java program:** Prob01.java

**Input File:** Prob01.in.txt

**Output:** Your output needs to be directed to stdout (i.e., using System.out.println())

**Introduction**

Can’t wait for high school graduation? Looking forward to all those gifts? Graduation gifts are always personalized. The monogramed towel set, blanket, ball-point pen, frame…what’s with all the monogramming? If they could only monogram cash! Your task is to write a program that will take a list of full names and output a list of monograms in the correct format.

Monogramming guidelines:

* Every name given will contain a first, middle, and last name separated by a single space. Sometimes an initial will be used instead of a spelled out name.
* Traditional monograms are presented in first, last, middle initial order.
* Monograms should be printed in all caps.

**Program Input**

The first line of the file Prob01.in.txt will contain a positive integer T denoting the number of test cases that follow. Each test case will have the following input:

* The first line of each test case will contain a positive integer N denoting the number of names that follow.
* The next N lines will contain one name per line.

**Example Input:**

2

2

Franklin Delano Roosevelt

h ross perot

4

Dwight David Eisenhower

Warren Gamaliel Harding

Harry S Truman

John Fitzgerald Kennedy

**Program Output**

Your program should print a monogram for each of the given names in the same order they were given.

**Example Output:**

FRD

HPR

DED

WHG

HTS

JKF

**Java program:** Prob02.java

**Input File:** Prob02.in.txt

**Output:** Your output needs to be directed to stdout (i.e., using System.out.println())

**Introduction**

You work for a beach authority who’s decided to count each and every grain of sand on their beaches. Luckily for you, there are other teams doing the counting. Your responsibility is to sum up the counts from each of the teams. Unfortunately, their counts are much larger than a computer can normally handle. You might want to search the Java API for a class called BigInteger.

**Program Input**

The first line of the file Prob02.in.txt will contain a positive integer T denoting the number of test cases that follow. Each test case will have the following input:

* The first line will contain a positive integer N denoting the number of teams counting grains of sand
* The next N lines will contain each team’s count – one per line

**Example Input:**

1

3

23882732998014371873

12198640218946090114

18002450730261047954

**Program Output**

For each test case, your program should output one line containing the sum of sand grains from all the teams.

**Example Output:**

54083823947221509941