

# Questions for programming contest

## Week 2

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### Question 1:

#### **Title : The point of minimum distance**

You will be given a set of points from the 2D plane. Your task is to find a point, whose sum of distances from all the other points is minimum.

Input will contain the number of points and the points as  $\{x1,y1\}$ ,  $\{x2,y2\}$  and so on ...

Output must contain the point which is minimum

### Question 2

#### **Title : evaluation of prefix expressions**

Given a arithmetic prefix expression you are required to evaluate it. It will be clear from the example

Input =  $*++4592$

Output = 36

### Question 3

**Title : Hey whats the factorial of 200 !?!**

Your task is to find the factorial of big numbers without using the float or double type. Example

Input = 200

Wrong Output = 7.886578673 E+374

Correct Output = 78865786736479050355236321393218506229513597768717326329474  
2533244359449963403342920304284011984623904177212138919638830257642790242637  
1050619266249528299311134628572707633172373969889439224456214516642402540332  
9186413122742829485327752424240757390324032125740557956866022603190417032406  
235170085879617892222278962370389737472000000000000000000000000000000000  
000000000000