

Quiz 1: Computer Programming Lab (MA512)

M.Sc. (M&C), Semester: Aug-Nov 2008-2009

Dept. of Mathematics, IIT Guwahati

Date: September 3, 2008

Time: 2:00PM - 5:00PM

Attempt All Questions

Marks: 30

1. Write a C program to compute the *average* of the numbers x^3 where x are prime and $x \in [1, 1000]$. [10]
2. Write a C program to compute the *mean* and *variance* of a set of n numbers, where n and the set of numbers are taken as input from keyboard.
Where $mean(x) = \bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$ and $var(x) = \frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2$ [10]
3. Write a C program to find and print all the numbers of *equal digits* in $[1, 10000]$ such as 1,2,...,9,11,22,....,111,.. [10]
