

CS 2073-002 Computer Programming with Engineering Applications

Fall 2009

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Homework 2

Due by Sept 25 (Friday), 2009 (5:00pm)

!!!! NO LATE HOMEWORK WILL BE ACCEPTED !!!

Total 50 points

HW Question:

In probability theory, the following function is called the density function of the normal distribution.

$$f(t) = \frac{1}{\sigma \sqrt{2\pi}} e^{-\frac{(t-\mu)^2}{2\sigma^2}}$$

In this HW, you are asked to implement a C program that

1. gets t , μ (*mu*), σ (*sigma*)
 2. uses the following constants: π (PI)=3.14
 3. computes the value of $f(t)$
 4. prints the result.
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What to return: **!!!! NO LATE HOMEWORK WILL BE ACCEPTED !!!**

Save your program as `hw2.c`, run it a few times and copy/paste the output into file `output.txt`. THEN, go to **WebCT**, and submit your files `hw2.c`, and `output2.txt` before the deadline. When you are writing your C program don't forget to include `/* COMMENTS */`