BLM1011

Introduction to Computer Science Assignment - 1

(Due 12/11/2018 - 23:59h)

Please, do not forget to analyze your algorithm.

Q1

Design an algorithm which gives the output of a function f(x,n).

$$f(x,n) = \frac{x}{1!} - \frac{x^3}{3!} + \frac{x^5}{5!} - \dots + \frac{x^{2n+1}}{(2n+1)!}$$

 $\textbf{Inputs:} \times \text{and n}$

Output: f(x,n)

Example:

X: 2

N: 2

f(x,n) = 112/120 = 0.9333

Q2

Design an algorithm which finds the minimum and maximum 4-digit cube number. Write the necessary code in Pascal.

Output: minimum 4-digit number

Maximum 4-digit number

Cube Numbers: 8, 27, 64, 125, 216 ...

BLM1011 Specifications for Assignments

Submission

- Assignments submitted after submission deadline (at most 2 days late)
 will be evaluated over 50. Do not send any e-mail 3 days after submission
 deadline.
- Collaboration on any assignment is strictly prohibited. Submitted
 assignments are automatically checked for similarities. Infractions will be
 given a zero for the entire assignment.
- Assignments MUST be submitted by e-mail. Every student must send his/her assignment to the following e-mail address.

amac@yildiz.edu.tr

 Subject of the e-mail MUST contain course name, Assignment # and student number in specified format written below;

Example Subject :

BLM1011_Assignment_1_18011001

Content

- 1. An PDF file which contains
 - a. Question A brief description for each question
 - b. Solution An explanation for each solution
 - c. Flowchart Flowchart for each solution
 - d. Analysis should be given for each question and each possible different cases

should be submitted via e-mail. The name of the PDF file should be given as follows: STUDENTID.PDF

Example File Name:

18011001.pdf

- Do not forget to prepare a cover page which should include
 - Course Name
 - Course Group
 - Instructor Name
 - Assignment Number
 - Delivery Date of the Assignment
 - Student Id
 - Student Name and Surname
 - Signature
- You can draw your flowchart either by your hand or by computer. Just work clean !!!

ATTENTION

 Assignments that don't comply with submission rules will NOT be evaluated. "NO EXCEPTION"