05/11/2018

BLM1011
Introduction to Computer Science
Assignment - 1
(Due 12/11/2018 – 23:59h)

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Please, do not forget to analyze your algorithm.

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Q1

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

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

Inputs: x 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"**