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BITS WILP Data Structures and Algorithms Design Mid-Sem 2017-H1 (Regular)

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BITS WILP Data Structures and Algorithms Design Mid-Sem 2017-H1 (Regular)

Birla Institue of Technology and Science, Pilani Work Integrated Learning Programmes Division Second Semester 2016-17

Mid Semester Test (EC-2 Regular) Course No: SS ZG519

Course Title: Data Structures and Algorithms Design

Nature of exam: Closed book

Weightage: 35% Duration: 2 hours

Date of exam: 25/Feb/2017 (AN)

No of pages: 2 No of questions: 5

Pages

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Birla Institute of Technology & Science, Pilani Work-Integrated Learning Programmes Division Second Semester 2016-2017

EC-2 Regular Mid-Semester Test

Course Title Data Structures and Algorithms Design SS ZG 519 Course No

30 marks Total Nature of Exam Closed Book 2 hours Duration

: 25/02/2017 (AN)

No. of Pages = 2 No. of Questions = 5

Note:

- Please follow all the Instructions to Candidates given on the cover page of the answer book.
 All parts of a question should be answered consecutively. Each answer should start from a fresh
- page.
 3. Assumptions made if any, should be stated clearly at the beginning of your answer.

```
1. Consider the following algorithm.
```

Algorithm Input: Array consisting n integers Output: Two dimensional $n \times n$ array B for i = 1 to nfor j = 1 to n $B[i,j] \to 0$ endfor endfor while $(a \neq b)$ for i = 1 to nfor j = i + 1 to n

Add up array entries from A[i] to A[j] and store it in B[i, j]endfor

(a) What is the output the algorithm for the input [2, 3, 4, 5]? (b) What is the running time of the algorithm? Justify your answer.

(c) Give a different algorithm to compute B (as in the above algorithm) with asymp-(3Marks) totically better running time.

2. (a) Find C and n_0 to prove that $\log_2 n \in O(n^{1/4})$.

(b) Take the following functions and arrange them in ascending order of growth rate. That is, if function g(n) immediately follows function f(n) in your list, then it should be the case that f(n) is O(g(n)).

$$2^{\sqrt{\log n}}$$
 2^n $2^{n/2}$ $n^{4/3}$ $n(\log n)^3$ $n^{\log n}$ 2^{n^2} $n!$

(3Marks)

(2Marks)

(2Marks)

SS ZG519 (EC-2 Regular Mid-Sem Test)

Second Semester 2016-2017

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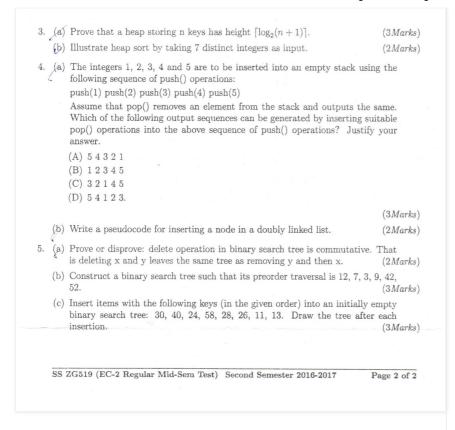
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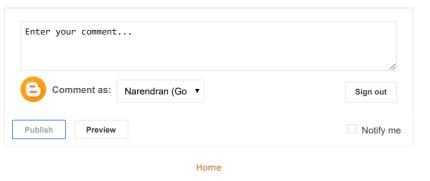


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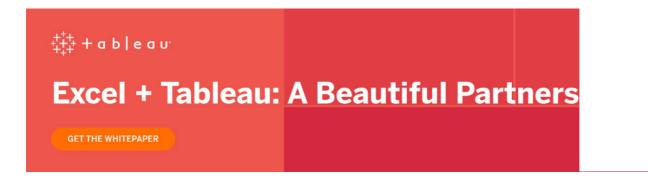
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