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Daffodil International University

Department of Software Engineering

Faculty of Science & Information Technology

Lab Final Examination, Fall 2024

Course Code: SE215 Course Title: Algorithm Analysis and Design Lab

Sections & Teachers: FE

Time: 1:15 Hr **Set: A**

Answer ALL Questions

1. Write a program in your preferred programming language to implement the bubble Sort algorithm.

Submission Instructions:

a) Create a file and name it with your student ID (for example : 201-35-110.C).
b) Implement the algorithm in your preferred language.
c) Provide your name as comments in the code. (for example: //Imtiaz haque)
d) Print your ID and name in the output window (for example: printf("ID=201-35-110 and name= Imtiaz haque");)
e) Copy the code and paste it in the "Lab Final answer script". Moreover, take screenshots of every step after running the code and make a document "Lab Final answer script".

2. Given a list of coin denominations and a target amount, determine the minimum number of coins required to make up that amount.

Submission Instructions:

a) Create a file and name it with your student ID (for example : 201-35-110.C).
b) Implement the algorithm in your preferred language.
c) Provide your name as comments in the code. (for example: //Imtiaz haque)
d) Print your ID and name in the output window (for example: printf("ID=201-35-110 and name= Imtiaz haque");)
e) Copy the code and paste it in the "Lab Final answer script". Moreover, take screenshots of every step after running the code and make a document "Lab Final answer script".

Finally Submit "Lab Final answer script" on BLC.

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Lab Final Examination, Fall 2024

Course Code: SE215 Course Title: Algorithm Analysis and Design Lab

Sections & Teachers: FE

Time: 1:15 Hr **Set: B**

Answer ALL Questions

1. Write a program in your preferred programming language to implement the selection Sort algorithm.

Submission Instructions:

f) Create a file and name it with your student ID (for example : 201-35-110.C).
g) Implement the algorithm in your preferred language.
h) Provide your name as comments in the code. (for example: //Imtiaz haque)
i) Print your ID and name in the output window (for example: printf("ID=201-35-110 and name= Imtiaz haque");)
j) Copy the code and paste it in the "Lab Final answer script". Moreover, take screenshots of every step after running the code and make a document "Lab Final answer script".

2. Given a set of items, each with a weight and a value, determine the maximum value that can be obtained by selecting a subset of the items that fit into a knapsack of limited capacity. Note that a fraction of the items can be considered.

Submission Instructions:

f) Create a file and name it with your student ID (for example : 201-35-110.C).
g) Implement the algorithm in your preferred language.
h) Provide your name as comments in the code. (for example: //Imtiaz haque)
i) Print your ID and name in the output window (for example: printf("ID=201-35-110 and name= Imtiaz haque");)
j) Copy the code and paste it in the "Lab Final answer script". Moreover, take screenshots of every step after running the code and make a document "Lab Final answer script".

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Lab Final Examination, Fall 2024

Course Code: SE215 Course Title: Algorithm Analysis and Design Lab

Sections & Teachers: FE

Time: 1:15 Hr **Set: C**

Answer ALL Questions

1. Write a program in your preferred programming language to implement the insertion Sort algorithm.

Submission Instructions:

k) Create a file and name it with your student ID (for example : 201-35-110.C).
l) Implement the algorithm in your preferred language.
m) Provide your name as comments in the code. (for example: //Imtiaz haque)
n) Print your ID and name in the output window (for example: printf("ID=201-35-110 and name= Imtiaz haque");)
o) Copy the code and paste it in the "Lab Final answer script". Moreover, take screenshots of every step after running the code and make a document "Lab Final answer script".

2. Given a list of coin denominations and a target amount, determine the number of ways to make up that amount.

Submission Instructions:

k) Create a file and name it with your student ID (for example : 201-35-110.C).
l) Implement the algorithm in your preferred language.
m) Provide your name as comments in the code. (for example: //Imtiaz haque)
n) Print your ID and name in the output window (for example: printf("ID=201-35-110 and name= Imtiaz haque");)
o) Copy the code and paste it in the "Lab Final answer script". Moreover, take screenshots of every step after running the code and make a document "Lab Final answer script".

Finally Submit "Lab Final answer script" on BLC.