DELIGHT CONCEPT

COURSE CODE: CIT237
COURSE TITLE: PROGRAMMING AND ALGHORITHM
system testing is designed to ensure that the system requirements and specifications are achieved
Functional System Testing
The two efficiency attributes used to analyze the performance of an algorithm are time and
Space efficient
(1823) proposed an algorithm that finds a path without any backtracking
Warnsdorff
The full meaning of the acronym ANSI is
American National Standards Institute

attributes is used to analyse the performance of algorithm
efficiency
Source code is the coded instruction given to the computer in a language in order to accomplish a
given task
particular programming
Another name for nondeterministic stage is
guessing
guessing
algorithms require dividing problems into sub-instances
Divide- and – Conquer
sort can compare adjacent elements of the list and exchange them if they are out of order
Understanding Bubble
complexity classifies problems according to their inherent difficulty.
Computational
The allows a program to be retrieved from the disk and amended as necessary.
Editor

sort divide its elements according to their values
merge
Among all elementary sorting methods,sorting is an inferior choice
bubble sort
The more frequently used natural measures of size for a situation where the choice of a parameter
indicating an input size is not really a factor is calledorder n.
Matrix
Thecase efficiency seeks to provide information on random input
Average
A programming language must have language structure, which consists of, expressions and
statements
keywords,
is the process of adding elements to the stack

A procedure for solving computational problems is called an
algorithm
Decision problems that cannot be solved at all by any algorithm are called problems
undecidable.
Q24 Thefunction is used in most programming languages to get a remainder when a
number is divided by another number
Mod
Algorithms that do not recall back the same algorithm or function are referred to as being
Non-recursive
analysis is the first stage involved in developing an efficient program
Problem Analysis
The major standard integer data-types are real, single, double and
Extended
PATCHUCU
sort scan the entire given list to find its smallest element

The object code is the result of the compilation process and it is also referred to as thecode
target
Class NP is the class of decision problem that can be solved bypolynomial
algorithms
Nondeterministic
Ais a partially ordered data structure that is used in implementing priority queues
Неар:
A Tree is a connectedgraph.
cyclic
is a fast and easy way to transverse an array of a given set of elements
bubble sort
A graph with no cycle is called
B

selection

Forest

A programming language must haverules for forming statements
syntactic
Sorting is the arrangement of items in a order
predetermined
The two major reasons for documentation are clarity and
Extensibility
The fundamental building blocks of object-oriented programming are object modelling, classification
and
inheritance.
is a sequence of zero or more elements called nodes
Linked list
Low level programming is also called
assembly language

efficiency seeks to provide information on random input
average-case
consist of positive and negative whole values
Integers:
is a means of organising related data items
Data structure
There arelevels of the programming language
four
This is the final stage of program development
Documentation
-
is the result of the compilation process
object code

The normal program execution consists ofstages
four (4)
is a finite sequence of unambiguous instructions
An algorithm
is a data structure in which insertion and deletion can only be done at one end
A stack
is an optimisation technique which belongs to the family of local search Hill climbing
generation of computers was coded in machine language
The first
programming language is also called assembly language Low level

Programming languages are languages through which we canthe computer
instruct
A construction to mind with the defendance construction of maintain and an additional to the desired and the d
A graph can be pictorially defined as a connection of points in a plane called
or edges
vertices
Languages can be used to execute a wide range of
algorithms,
is a data structure in which insertion and deletion can only be done at one end
Stack
this indicates how fast an algorithm runs
Time Efficiency:
The two major reasons for documentation are clarity and
Extensibility

programmers are those who design and maintain the basic software that runs the system
System
The three popular methods used to develop a logic plan are flowcharts, and a top-down chart
pseudo-code
is the path that starts and ends at the same vertex and passes through all the other vertices exactly once Hamiltonian circuit
Which of the options is the standard number of rows and columns in a chess board? Cavg $(n) = 1$
The following are advantges of Divide-and Conquer, except? Quicksort
Partition-Exchange Sort is also known as?
Stable
Operate in place

Adaptive
None of the options is correct
The ideal sorting algorithm would have the following properties, except?
divide and conquer
Which of the following options is the fastest sorting algorithm?
Binary
Which sort is an O(n log n) comparison-basedsorting algorithm
Merge sort
Which of the following sorting algorithms has average-case and worst-case running time of O (n log
n) ?
Binary
Which of the following paradigms helps in the discovery of efficient algorithms?
Binary

Which of the options has a time complexity of $\Theta(n \log(n))$ on the average?
Mergesort
Which of the following entions is a requesive cost algorithm?
Which of the following options is a recursive sort algorithm?
Quicksort
Mergesort
Binary
All of the options
Which of the options is an example of divide-and-conquer paradigm?
Stack
A data structure in which insertion and deletion can only be done at one end is called a
Character
Which of the following options is the major reason(s) for documentation?
Program Testing
Program Testing
A finite sequence of unambiguous instructions for solving a problem is called
Source Code

The coded instruction given to the computer in a particular programming language in order to
accomplish a given task is called
Literature Review
Which of the following stages of developing an efficient program is not correct?
Procedural Programming
Which of the following options is not correct as for the feature(s) of programming languages?
Specific to particular Machine
Java is an example of a (an)
Object-Oriented Programming
Which of the following is the major advantage of a high level language?
It saves much time and effort when used
A set of codes that instructs the computer to carry out some processes is called
A program

The languages through which we can instruct the computer to carry out some processes is called
Programming
Programming languages are languages through which we can instruct the computer
programme is a collection of logical declarations about what outcome a function should accomplish None of the above
is concerned with making complex calculations very fast and very accurately Scientific Computing
Programs for use by institutions to manage their information systems Management Information System
This is a program that converts programs written in assembly
Assembler

Some advantages of high-level language are as follows except
used on few computer
program is a continuous loop that responds to events that are generated in an unpredictable order
event driven
These are various programming methodologies
all of the above
This is where the clear statement of the problem is stated
Problem Analysis
is the result of the compilation process
object code
is a finite sequence of unambiguous instructions
an algorithm

This is a level of programming language which is different from the machine language
Low Level Language
This is a level of programming language which is different from the machine language
Low Level Language
is a series of steps, each of which performs a calculation
procedural program
Low level programming language is also called assembly language TRUE
Machine language is peculiar to each type of computer
strongly agree
language is independent of the computer
high level

Some advantages of high-level language are as follows except
used on few computer
programming languages are as follows except
programming languages are as follows except
E
Major functional programming languages are
all of the above
programme is a collection of logical declarations about what outcome a function should
logic
program is a continuous loop that responds to events that are generated in an unpredictable order
event driven
program is a collection of cooperating processes
Concurrent
Programs for use by institutions to manage their information systems

Management Information System
is a program that translates another program written in any programming language
A translator
This is a program that converts programs written in assembly
Assembler
allows a program to be retrieved from the disk
An editor
is the process of writing programs
is the process of writing programs
Programming
There are levels of programming languages

three

is a means of organising related data items
Data
is a sequence of zero or more elements called nodes
Linked list
The efficiency attributes of an algorithm are
time and space efficiency
efficiency seeks to provide information on random input
Average-case
is an optimisation technique which belongs to the family of local search
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Low level programming is also called

Assembly language