## Applications

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Insertion Sort

is used when number of elements is small

is sorting "almost sorted" lists

Merge Sort

Lo used in sorting linked lists
Lo Inversion Count Problem

Quick Sort

L> Commercial Computing
L> Information Searching
L> Used to implement primitive type methods

Binary Search (4)

Lo Used for indexing IP addresses Lo Used to manage Virtual Area Memory Areas.

Heap Sort

L> Priority Queves

1) Finding the order in Statistics

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(b)	Count Sort
	Loused in computer science to collect objects according
	to Keys that are Small positive integers.
(7)	Radix Sort
	Lo used for very large in-memory sort in a multiprocessor
-	er cluster.
(8)	BES
	Ly in Peer-to-Peer networks to find neighbor nodes
	Ly in Gifs navigation to find neighboring places
,	
9	DFS - Commence of the same of
	to Topological Sorbing can be done through DFS. Is used to detect cycles in a graph.
	is used to detect cycles in a graph.
(i)	Kruskalis Afgrithm  L> LAN networks  L> Single link cluster
	L> LAN neworks
	L> Single Cink cluster
(i)	Prim's Algorithm
	L's Travelling Salesman Problem
	Prim's Algorithm  L> Travelling Salesman Problem  L> Cluster Analysis
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(12)	Bellman-Ford Algorithm
	La distance - vector routing protocol.
	Bellman-Ford Algorithm Los distance - vector routing protocol. Los Used in geographical maps.
(3)	Dijksba's Algorithm
	Dijksbra's Algorithm  5 Designate a file server in LAN  5 Digital Mapping Services in Google Maps.
	1> Digital Mapping Services in Google Maps.
(14)	Floyd-Warshall Algorithm
	Floyd-Warshall Algorithm  List finding inversion of real matrices  List finding transitive closure of directed graphs.
	4) finding transitive closure of directed graphs.
B	Minimum Spanning Trees  Ly Network Design  Ly Image Processing
	is Network Design
1	Ly Image Processing
-	13 Useful primitive
	13 Useful primitive
(19)	Knapsack Problem
	is Financial Modelling
÷	4) Production and inventory management systems
(17)	· Longest Common Subsequence

compotational linguistics & bioinformatics.

Date
(18) Matrix Chain Multiplication
is graphs algorithms
1) Signal processing
L's graphs algorithms L's Signal processing L's Network industry
(19) Greedy Algorithm
L>CPU Scheduling
L> MST'S
(20) Coin Change Problem
(20) Coin Change Problem Lo distribute change (vending machines)
(21) Vertex Cover Problem
Ly edges = roads; vertices= cross roads => place security compras
Ly edges = roads; vertices= cross roads => place security cameras at the crossroads (cover the whole city but use less cameras)
(22) Travelling Salesman Problem  Ly vehicle routing problems  Ly Planning and Scheduling problems
Ly vehicle routing problems
t> Planning and Scheduling problems
(23) Set Covering Problem
Ly Airline Craw Scheduling
23) Set Covering Problem  Ly Airline Craw Scheduling  Ly Optimal Route Selection.
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(24)	Greometric Algorithms
	Lata Mining
	L's Data Mining L's Compoter Graphics  's Greographic Information System.
	is Grengraphic Information System.
	Joseph John Joseph
(25)	Convex HULL
	La Combinational Optimization
	La Combinational Optimization La Greometric Modelling
(3)	Manak Die Marilla
(26)	Closest Pair Algorithm
	Ls. Hierarchical clustering
	L. Hierarchical clustering L. Greedy Matching
(A)	Ro Da Hara Malelina (leute Fora KMD Royer Moore)
(27)	On Pattern Matching (brute Fore, KMP, Boyer Moore)
	Ly Text editors
	15 Search engines
	Lo Search engines Lo Biological Research
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