

# Padasalai<sup>9</sup>s Telegram Groups!

( தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்! )

- Padasalai's NEWS Group https://t.me/joinchat/NIfCqVRBNj9hhV4wu6\_NqA
- Padasalai's Channel Group <a href="https://t.me/padasalaichannel">https://t.me/padasalaichannel</a>
- Lesson Plan Group https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw
- 12th Standard Group https://t.me/Padasalai 12th
- 11th Standard Group <a href="https://t.me/Padasalai\_11th">https://t.me/Padasalai\_11th</a>
- 10th Standard Group https://t.me/Padasalai\_10th
- 9th Standard Group https://t.me/Padasalai 9th
- 6th to 8th Standard Group <a href="https://t.me/Padasalai\_6to8">https://t.me/Padasalai\_6to8</a>
- 1st to 5th Standard Group <a href="https://t.me/Padasalai\_1to5">https://t.me/Padasalai\_1to5</a>
- TET Group https://t.me/Padasalai\_TET
- PGTRB Group https://t.me/Padasalai\_PGTRB
- TNPSC Group https://t.me/Padasalai\_TNPSC

### CHAPTER - 4

### **ALGORITHMIC STRATEGIES**

1.	A is a finite set of instructions to accomplish a particular task.					
	a) Array	b) Structure	c) Algorithm	d) Program		
2.	is a step-by-step procedure for solving a given problem.					
	a) Array	b) Structure	c) Algorithm	d) Program		
3.	An can be in	mplemented in any suitable pr	ogramming language.			
	a) Array	b) Structure	c) Algorithm	d) Program		
4.	can be developed to store, manipulate and retrieve data from such data structures.					
	a) Array	b) Structure	c) Algorithm	d) Program		
5.	The way of defining an a	lgorithm is called	_			
	a) Algorithmic Solution	b) Algorithmic Strategy	c) Algorithm Analysis	d) All the above		
6.	An that yiel	ds expected output for a valid	input is called an algorithmic	solution		
	a) Algorithmic Solution	b) Algorithmic Strategy	c) Algorithm Analysis	d) All the above		
7.	helps to so	lve a given problem logically				
	a) Array	b) Structure	c) Algorithm	d) Program		
8.	is an expre	ssion of algorithm in a program	mming language			
	a) Array	b) Structure	c) Algorithm	d) Program		
9.	resembles	a pseudo cod <mark>e w</mark> hich can be in	nplemented in any language			
	a) Array	b) Structure	c) Algorithm	d) Program		
10.	is more spe	ecific to a programming langua	age			
	a) Array	b) Structure	c) Algorithm	d) Program		
11.	Analysis of algorithms ar	nd performance evaluation car	be divided into	different phases		
	a) 3		c) 5	d) 4		
12.	This is a theoretical perfe	ormance analysis of an algorith	nm.	,		
	a) Posteriori Testing	b) Priori Estimates	c) Time Complexity d	) Space Complexity		
13.	Efficiency of an algorithm	m is measured by assuming the	e factors.			
		b) Priori Estimates		) External		
14.	is called pe	erformance measurement.				
		b) Priori Estimates	c) Time Complexity d	) Space Complexity		
15.	In this analysis, actual sta	atistics like running time and r	equired for the algorithm exec	eutions are collected.		
	a) Time	b) Space	c) Algorithm	d) Array		
16.	An estimation of the ti	ime and space complexities	of an algorithm for varying	g input sizes is called		
	·			- -		
		b) Algorithmic Strategy	c) Algorithm Analysis	d) All the above		
17.		ed by counting the number				
	algorithm.	, ,	• 1			
	a) Time	b) Space	c) Algorithm	d) Array		
18		d by the maximum memory sp		•		
	a) Time	b) Space	c) Algorithm	d) Array		
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19.	of an algorithm is the amount of memory required to run to its completion.					
	a) Space Complexity	b) Time Complexity	c) Algorithm Strategy	d) Algorithm		
20.	A is define	ed as the total space required f	or storing certain data and va	riables for an algorithm.		
	a) Fixed Part	b) Variable Part	c) Algorithm	d) Array		
21.	A is define	ed as the total space required	by variables, which sizes dep	ends on the problem and		
	its iteration.					
	a) Fixed Part	b) Variable Part	c) Algorithm	d) Array		
22.	The can be	e measured based on the usage	e of different resources.			
	a) Algorithmic Solution	b) Efficiency of Algorithm	c) Time Complexity	d) Space		
23.	A way of designing algorithm is called					
	a) Algorithmic Solution	b) Algorithmic Strategy	c) Algorithm Analysis	d) All the above		
24.	is often use	ed to describe the worst-case of	of an algorithm.			
	a) Big O	b) Big Omega	c) Big P	d) Big Theta		
25.	is the rever	rse Big O				
	a) Big O	b) Big Omega	c) Big P	d) Big Theta		
26.	If is used t	o describe the upper bound (w	vorst - case) of an asymptotic	function.		
	a) Big O	b) Big Omega	c) Big P	d) Big Theta		
27.	is used to d	describe the lower bound (best	t-case).			
	a) Big O	b) Big Omega	c) Big P	d) Big Theta		
28.	also called	sequential search				
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
29.	is a sequen	ntial method for finding a parti	i <mark>cular val</mark> ue in a list.			
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
30.	Method checks the search element with each element in sequence until the desired element is					
	found or the list is exhau	sted.				
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
31.	also called	half-interval search algorithm	1.			
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
32.	finds the p	osition of a search element wi	thin a sorted array.			
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
33.	is a simple	sorting algorithm.				
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
34.	Algorithm	starts at the beginning of the	list of values stored in an arra	y.		
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
35.	compares	each pair of adjacent elements	and swaps them if they are in	n the unsorted order.		
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
36.	algorithm	is also called as a comparison	sort			
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		

37.	Algorithm is simple and it is too slow and less efficient when compared to insertion sort and					
	other sorting methods.					
	a) Linear Search	b) Binary Search	c) Bubble Sort	d) Insertion Sort		
38.	The is a	simple sorting algorithm tha	at improves on the performance of	of bubble sort		
	a) Linear Search	b) Binary Search	c) Insertion Sort	d) Selection Sort		
39.	Algorithm will first find the smallest elements in array and swap it with the element in the					
	first position of an array.					
	a) Linear Search	b) Binary Search	c) Insertion Sort	d) Selection Sort		
40.	Algorith	Algorithm repeatedly selects the next-smallest element and swaps in into the right place for				
	every pass.					
	a) Linear Search	b) Binary Search	c) Insertion Sort	d) Selection Sort		
41.	is a simp	ole sorting algorithm.				
	a) Linear Search	b) Binary Search	c) Insertion Sort	d) Selection Sort		
42.	works by taking elements from the list one by one and inserting then in their correct position					
	in to a new sorted list.					
	a) Linear Search	b) Binary Search	c) Insertion Sort	d) Selection Sort		
43.	algorithm uses n-1 number of passes to get the final sorted list					
	a) Linear Search	b) Binary Search	c) Insertion Sort	d) Selection Sort		
44.	is an algorithmic design method that can be used when the solution to a problem can be					
	viewed as the result of	a sequence of decisions.				
	a) D <mark>ynamic Programm</mark>	i <mark>ng</mark> b) <mark>Me</mark> moiz <mark>ati</mark> on	c) Algorithmic Strategy	d) Binary Search		
45.	Approach is similar to divide and conquer.					
	a) Dynamic Programm	ingb) Memoization	c) Algorithmic Strategy	d) Binary Search		
46.	is used whenever problems can be divided into similar sub-problems.					
	a) Dynamic Programm	ingb) Memoization	c) Algorithmic Strategy	d) Binary Search		
47.	Approaches are used to find the solution in optimized way.					
	a) Dynamic Programm	ingb) Memoization	c) Algorithmic Strategy	d) Binary Search		
48.	is an optimization technique used primarily to speed up computer programs					
	a) Dynamic Programm	ingb) Memoization	c) Algorithmic Strategy	d) Binary Search		

### CHAPTER - 5

### **PYTHON VARIABLES AND OPERATORS**

1.	The language was released in					
	a) 1981	b) 1990	c) 1980	d) 1991		
2.	is a platform independent programming language.					
	a) C++	b) Java	c) Python	d) C		
3.	is a gene	eral purpose programming la	nguage which can be used	for both scientific and nor		
	scientific programming	g.				
	a) C++	b) Java	c) Python	d) C		
4.	The programs written is	in are easily read	lable and understandable.			
	a) C++	b) Java	c) Python	d) C		
5.	In, progra	In, programs can be written in two ways				
	a) C++	b) Java	c) Python	d) C		
6.	The allow	vs us to write codes in Python	command prompt			
	a) Interactive Mode	b) Script Mode	c) Python	d) Command		
7.	programs	can be written and stored as	separate file			
	a) Interactive Mode	b) Script Mode	c) Python	d) Command		
8.	is used to	create and edit python source	e file.			
	a) Interactive Mode	b) Script Mode	c) Python	d) Command		
9.	InPython	code can be d <mark>ire</mark> ctly typed ar	nd the interpreter displays th	e result(s) immediately.		
	a) Interactive Mode	b) Script Mode	c) Python	d) Command		
10.	. Theindic	at <mark>es</mark> th <mark>at Interpret</mark> er is ready t	o accept instructions.			
	a) <<	b) >>	c) <<<	d) >>>		
11.	A is a text file containing the Python statements.					
	a) Word	b) Notepad	c) Script	d) Interactive mode		
12.	Scripts ar	e reusable code.				
	a) C++	b) Java	c) Python	d) C		
13.	The Command used to	create script in Python				
	a) File→New	b) File→New File	c) File→Open	d) Edit→New File		
14.	The Keyboard Shortcu	t used to create script in Pyth	on			
	a) Ctrl+M	b) Ctrl+N	c) Ctrl+O	d) Ctrl+P		
15.	The Command used to	save the script in Python is _				
	a) Edit→Save	b) File→Save	c) File→Saveas	d) View→Save		
16.	The Extension of Pytho	on is				
	a) .pu	b) .pt	c) .py	d) .ph		
17.	The Command used to	execute in Python Script is _				
	a) Run→Run	b) Run→Run Module	c) Run→Execute	d) Execute→File		
18.	The Keyboard Shortcut used to execute in Python Script is					
	a) F4	b) F5	c) F3	d) F2		
19.	The funct	ion helps to enter data at run	time by the user			
	a) print()	b) input( )	c) print	d) input		

20.	i	is used to display the result of the program on the screen after execution.				
	a) print()	b) input()	c) print	d) input		
21.	. The function is used to display result on the screen					
	a) print()	b) input()	c) print	d) input		
22.	The evaluates the expression before printing it on the monitor.					
	a) print()	b) input()	c) print	d) input		
23.	i	s used as a separator in print () to	print more than one item.			
	a) . (dot)	b), (comma)	c): (colon)	<pre>d) semicolon(;)</pre>		
24.	F	Function is used to accept data as	input at run time.			
	a) print()	b) input()	c) print	d) input		
25.	S	tring in the syntax is a statement	or message to the user, to know	what input can be given.		
	a) Key	b) Prompt	c) Point	d) Set of		
26.	The	accepts all data as string or ch	naracters but not as numbers.			
	a) print()	b) input()	c) print	d) input		
27.	The	function is used to convert str	ring data as integer data explicitly	y.		
	a) print()	b) input()	c) print	d) int()		
28.	In Python, cor	mments begin with hash symbol _	<u>.</u>			
	a) @	b) \$	c) #	d) &		
29.	Python breaks	each logical line into a sequence	of elementary lexical componen	its known as		
	a) Tokens	b) Identifiers	c) Keywords	d) Delimiters		
30.	Tokens are cla	assified into categori	ies			
	a) 3	b) 4	c) 5	d) 6		
31.	A	_ is a name used to identify a vari	iable, function, class, module or	object.		
	a) Tokens	b) Identifiers	c) Keywords	d) Delimiters		
32.	a	re special words used by Python	interpreter to recognize the struc	ture of program.		
	a) Tokens	b) Identifiers	c) Keywords	d) Delimiters		
33.	a	re special symbols which represe	ent computations, conditional ma	tching etc.		
	a) Operators	b) Operands	c) Association	d) Literal		
34.	The value of a	an operator used is called				
	a) Operators	b) Operands	c) Association	d) Literal		
35.	A	operator is also called as Compa	arative operator			
	a) Arithmetic	b) Relational	c) Logical	d) Conditional		
36.	A	operator checks the relationship	between two operands.			
	a) Arithmetic	b) Relational	c) Logical	d) Conditional		
37.		operators are used to pe	<u> </u>	-		
	a) Arithmetic	b) Relational	c) Logical	d) Conditional		
38.		logical operators				
	a) 3	b) 4	c) 5	d) 6		
39.	•	is a simple assignment	operator to assign values to varia			
	a) &	b) *	c) =	d) %		
40.	40. Ternary operator is also known as operator					
	a) Arithmetic	b) Relational	c) Logical	d) Conditional		

41.	operator that evaluates something based on a condition being true or false.					
	a) Arithmetic	b) Relational	c) Logical	d) Conditional		
42.	42. Python uses the symbols and symbol combinations as					
	a) Tokens	b) Identifiers	c) Keywords	d) Delimiters		
43.	is a raw data given in a variable or constant.					
	a) Operators	b) Operands	c) Association	d) Literal		
44.	consists of digits and are immutable (unchangeable).					
	a) Character Literal	b) String Literal	c) Boolean Literal	d) Numeric Literals		
45.	Numeric literals can belo	ong to different n	umerical types			
	a) 3	b) 4	c) 5	d) 6		
46.	In Python a	is a sequence of characters su	rrounded by quotes.			
	a) Character Literal	b) String Literal	c) Boolean Literal	d) Numeric Literals		
47.	A is a single	e character surrounded by sing	gle or double quotes.			
	a) Character Literal	b) String Literal	c) Boolean Literal	d) Numeric Literals		
48.	3. The value with is used to give multi-line string literal.					
	a) Single Quotes	b) Double Quotes	c) Triple Quotes	d) None of these		
49.	9. A can have any of the two values					
	a) Character Literal	b) String Literal	c) Boolean Literal	d) Escape Sequence		
50.	In Python strings, the bac	ckslash "\" is a special charac	ter, also called the			
	a) C <mark>har</mark> acter Literal	b) String L <mark>iter</mark> al	c) Boolean Literal	d) Escape Sequence		
51.	Escape Sequ	ence is used to create a new lin	ne			
	a) \n	b) \r	c) \t	d) \v		
52.	Escape Sequ	ence is used to create a tab				
	a) \n	b) \r	c) \t	d) \v		
53.	Escape Sequence is used to create a carriage return					
	a) \n	b) \r	c) \t	d) \v		
54.	4. A data is represented by a sequence of decimal digits that includes a decimal point.					
	a) Floating Point	b) Decimal	c) Complex Number	d) Numeric		
55.	5 is made up of two floating point values					
	a) Floating Point	b) Decimal	c) Complex Number	d) Numeric		