

# DSA & 1 PROG LANG -BASICS (MIN TIME REQUIRED-4 MONTHS)

## DATA STRUCTURE & ALGORITHM-18 WEEKLY TASK

DSA TOPIC	TIME	TASK
<b>1.HASHING</b>	7 DAYS	1 <sup>ST</sup> WEEKLY TASK
<b>2.SINGLY LINKED LIST</b>	7 DAYS	2 <sup>ND</sup> WEEKLY TASK
3.CIRCULAR LINKED LIST	3DAY	3RD WEEKLY TASK
<b>4.DOUBLY LINKED LIST</b>	4DAYS	3 <sup>RD</sup> WEEKLY TASK
5.STACK	6 DAYS	5 <sup>TH</sup> WEEKLY TASK
<b>6.QUEUE &amp;DEQUE</b>	7DAYS	4 <sup>th</sup> WEEKLY TASK
7.TREE	7 DAYS	6 <sup>TH</sup> WEEKLY TASK
<b>8.BINARY SEARCH TREE</b>	7 DAYS	7 <sup>TH</sup> WEEKLY TASK
9.HEAP	4 DAYS	8 <sup>TH</sup> WEEKLY TASK
<b>10.GRAPH</b>	10 DAYS	9 <sup>TH</sup> WEEKLY TASK
<b>11.ARRAYS</b>	5 DAYS	10 <sup>TH</sup> WEEKLY TASK
12.STRINGs	4 DAYS	10 <sup>TH</sup> & 11 <sup>TH</sup> WEEKLY TASK
<b>13.SORTING</b>	7 DAYS	14 <sup>TH</sup> WEEKLY TASK
14.SEARCHING	4 DAYS	13 <sup>TH</sup> WEEKLY TASK
<b>15.RECURSION</b>	4 DAYS	15 <sup>TH</sup> WEEKLY TASK
16.ANALYSIS OF ALGORITHM	2 DAYS	15 <sup>TH</sup> WEEKLY TASK
17.MATHEMATICS	3 DAYS	16 <sup>TH</sup> WEEKLY TASK
18.BIT MAGICS	3 DAYS	16 <sup>TH</sup> WEEKLY TASK
<b>19.MATRIX</b>	5 DAYS	17 <sup>TH</sup> WEEKLY TASK
20.GREEDY	3 DAYS	18 <sup>TH</sup> WEEKLY TASK
21.BACKTRACKING	2 DAYS	17 <sup>TH</sup> WEEKLY TASK
22.TRIE	2 DAYS	18 <sup>TH</sup> WEEKLY TASK
<b>23.DYNAMIC PROGRAMMING</b>	10 DAYS	12 <sup>TH</sup> WEEKLY TASK & 13 <sup>TH</sup> WEEKLY TASK
24.SEGEMNT TREE	2 DAYS	18 <sup>TH</sup> WEEKLY TASK
<b>25.DISJOINT SET</b>	2 DAYS	15 <sup>TH</sup> & 16 <sup>TH</sup> WEEKLY TASK
<b>MIN TIME REQUIRED FOR BASICS OF DSA</b>	<b>126 DAYS-(23 AUG-26 DEC) (4.2 -MONTHS)</b>	<b>18 WEEKLY TASK</b>

# CHOOSE ANY 1 OF THE PROG LANGUAGE (

## JAVA/C++/PYTHON....)-16/17 WEEKLY TASK

### REQUIRED

JAVA TOPIC	MIN TIME REQUIRED	TASK
1.JAVA IDENTIFIERS & RESERVED WORDS (1-76MIN)	3 HRS	1 <sup>ST</sup> WEEKLY TASK
2.DATA TYPES (2-121MIN)	4 HRS	1 <sup>ST</sup> WEEKLY TASK
3.LITERALS (2-128MIN)	4 HRS	1 <sup>ST</sup> WEEKLY TASK
4.ARRAYS (4-277MIN)	10 ARRAYS	1 <sup>ST</sup> WEEKLY TASK
5. TYPE OF VARIABLES (2-135 MIN)	5 HRS	2 <sup>ND</sup> WEEKLY TASK
6. VAR-ARG METHODS (1-121MIN)	4 HRS	2 <sup>ND</sup> WEEKLY TASK
7. MAIN METHOD (2-108 MIN)	3 HRS	2 <sup>ND</sup> WEEKLY TASK
8.COMMAND LINE ARGUMNET (1-39)	1.5 HRS	2 <sup>ND</sup> WEEKLY TASK
9.JAVA CODING STANDARDS (1-68MIN)	3 HRS	2 <sup>ND</sup> WEEKLY TASK
10.OPERATORS & ASSIGNMENT (7-450MIN)	15 HRS	3 <sup>RD</sup> WEEKLY TASK
11.FLOW CONTROL (6-328MIN)	11 HRS	3 <sup>RD</sup> WEEKLY TASK
12.DECLARATIONS AND ACCESS MODIFIERS (14-1108 MIN)	36 HRS	4 <sup>TH</sup> WEEKLY TASK
13.INTERFACE AND ABSTRACT CLASS LOOPHOLES (7-113 MIN)	4 HRS	5 <sup>TH</sup> WEEKLY TASK
14. OBJECT ORIENTED PROGRAMMING (17-1174MIN)	38 HRS	5 <sup>TH</sup> WEEKLY TASK
15.OOPS CONCEPTS (1-673 MIN)	22 HRS	6 <sup>TH</sup> WEEKLY TASK
16.CONSTRUCTORS (1-150MIN)	5 HRS	6 <sup>TH</sup> WEEKLY TASK
17.EXCEPTION HANDLING (9-693)	24 HRS	7 <sup>TH</sup> WEEKLY TASK
18.JAVA EXCEPTION HANDLING FOR INTERVIEWS (1- 605 MIN)	21 HRS	8 <sup>TH</sup> WEEKLY TASK
19.MULTI THREADING (14-1045 MIN)	35 HRS	9 <sup>TH</sup> WEEKLY TASK
20.MULTITHREADING ENHANCEMENT (5-364 MIN)	12 HRS	10 <sup>TH</sup> WEEKLY TASK
21.INNERCLASS (5-486MIN)	16 HRS	10 <sup>TH</sup> WEEKLY TASK
22. JAVA.LANG.PACKAGE (14-1100 MIN)	37 HRS	11 <sup>TH</sup> WEEKLY TASK

23. STRING, STRINGBUFFER & STRINGBUILDER FOR INTERVIEWS (1-393MIN)	13 HRS	12 <sup>TH</sup> WEEKLY TASK
24.FILE I/O (5-328 MIN)	12 HRS	12 <sup>TH</sup> WEEKLY TASK
25. SERIALIZATION (7-450 MIN)	15 HRS	12 <sup>TH</sup> WEEKLY TASK
26. REGULAR EXPRESSIONS (4-244 MIN)	9 HRS	13 <sup>TH</sup> WEEKLY TASK
27.COLLECTIONS (18-1300 MIN)	44 HRS	13 <sup>TH</sup> WEEKLY TASK
28.CONCURRENT COLLECTIONS (19-175 MIN)	6 HRS	14 <sup>TH</sup> WEEKLY TASK
29.GENERICS (5-298MIN)	10 HRS	14 <sup>TH</sup> WEEKLY TASK
27.GARBAGE COLLECTIONS (5-255 MIN)	9 HRS	14 <sup>TH</sup> WEEKLY TASK
28.INTERNATIONALIZATION (3-167 MIN)	5 HRS	14 <sup>TH</sup> WEEKLY TASK
29.ENUM (3-204MIN)	7 HRS	15 <sup>TH</sup> WEEKLY TASK
30.DEVELOPMENT (3-269 MIN)	10 HRS	15 <sup>TH</sup> WEEKLY TASK
31.ASSERTIONS (4-230 MIN)	9 HRS	15 <sup>TH</sup> WEEKLY TASK
32.JVM ARCHITECTURE (5-295MIN)	10 HRS	16 <sup>TH</sup> WEEKLY TASK
33.JAVA 8 STREAM API FEATURES (18-120 MIN)	4 HRS	16 <sup>TH</sup> WEEKLY TASK
34. DATABASE CONNECTIVITY	4 HRS	16 <sup>TH</sup> WEEKLY TASK
<b>MIN TIME REQUIRED FOR BASICS OF JAVA</b>	<b>500+ HRS-120 DAYS(4 MONTHS)</b>	<b>16 WEEKLY TASK</b>