From **Introduction to Algorithm** book we have the following **concepts** please identify the relationship between each two concepts.

1. Knowing **Data-Structure** is required to --------------------------- **Algorithm**
2. Understanding
3. Applying
4. Analyzing and Evaluating
5. Create
6. Knowing **Data Structure** is required to --------------------------- **BREADTH-FIRST-SEARCH**
7. Understanding
8. Applying
9. Analyzing and Evaluating
10. Create
11. Knowing **STACKS** is required to --------------------------- **BREADTH-FIRST-SEARCH**
12. Understanding
13. Applying
14. Analyzing and Evaluating
15. Create
16. Knowing **DATA-STRUCTURE** is required to --------------------------- **SORTING-IN-LINEAR-TIME**
17. Understanding
18. Applying
19. Analyzing and Evaluating
20. Create
21. Knowing **BREADTH-FIRST-SEARCH** is required to --------------------------- **ALGORITHM**
22. Understanding
23. Applying
24. Analyzing and Evaluating
25. Create
26. Knowing **ALGORITHM** is required to --------------------------- **GREEDY**-**ALGORITHM**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
27. Knowing **Heap Sort Algorithm** is required to --------------------------- **Sorting Algorithm**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
28. Knowing **COUNTING-SORT** is required to --------------------------- **SORTING-IN-LINEAR-TIME**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
29. Knowing **GRAPH-ALGORITHM** is required to ---------------------------**SORTING-IN-LINEAR-TIME**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
30. Knowing **SORTING-IN-LINEAR-TIME** is required to --------------------------- **LIS REQUIRED TS**
	1. Remembering
	2. Applying
	3. Analyzing and Evaluating
	4. Create
31. Knowing **STACKS** is required to ---------------------------**RED-BLACK-TREES**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
32. Knowing **ALGORITHM** is required to --------------------------- **GRAPH-ALGORITHM**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
33. Knowing **GRAPH-ALGORITHM** is required to --------------------------- **FLOYD-WARSHALL-ALGORITHM**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
34. Knowing **LIS REQUIRED TS** is required to --------------------------- **BREADTH-FIRST-SEARCH**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
35. Knowing **FLOYD-WARSHALL-ALGORITHM** is required to --------------------------- **RED-BLACK-TREES**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
36. Knowing **SORTING-IN-LINEAR-TIME** is required to --------------------------- **COUNTING-SORT**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
37. Knowing **DATA-STRUCTURE** is required to --------------------------- **RED-BLACK-TREES**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
38. Knowing **Insertion Sort** is required to --------------------------- **Patriating**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
39. Knowing **BREADTH-FIRST-SEARCH** is required to ---------------------------**BINARY-SEARCH-TREES**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
40. Knowing **BINARY-SEARCH-TREES** is required to --------------------------- **GRAPH-ALGORITHM**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
41. Knowing **Insertion Sort** is required to --------------------------- **Randomize** **Quick Sort**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
42. Knowing **ALGORITHM** is required to --------------------------- **PRIM-ALGORITHM**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
43. Knowing **Worst Case** is required to --------------------------- **Time**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
44. Knowing **LONGEST-COMMON-SUBSEQUENCE** is required to --------------------------- **RED-BLACK-TREES**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
45. Knowing **Algorithm** is required to --------------------------- **Binary Search Tree**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
46. Knowing **Data Structure** is required to --------------------------- **Binary Search Tree**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
47. Knowing **Algorithm** is required to --------------------------- **Graph**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
48. Knowing **Algorithm** is required to --------------------------- **Divide and Conquer**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
49. Knowing **Data-Structure** is required to --------------------------- **Algorithm**
50. Understanding
51. Applying
52. Analyzing and Evaluating
53. Create
54. Knowing **Data Structure** is required to --------------------------- **BREADTH-FIRST-SEARCH**
55. Understanding
56. Applying
57. Analyzing and Evaluating
58. Create
59. Knowing **STACKS** is required to --------------------------- **BREADTH-FIRST-SEARCH**
60. Understanding
61. Applying
62. Analyzing and Evaluating
63. Create
64. Knowing **DATA-STRUCTURE** is required to --------------------------- **SORTING-IN-LINEAR-TIME**
65. Understanding
66. Applying
67. Analyzing and Evaluating
68. Create
69. Knowing **BREADTH-FIRST-SEARCH** is required to --------------------------- **ALGORITHM**
70. Understanding
71. Applying
72. Analyzing and Evaluating
73. Create
74. Knowing **ALGORITHM** is required to --------------------------- **GREEDY**-**ALGORITHM**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
75. Knowing **Heap Sort Algorithm** is required to --------------------------- **Sorting Algorithm**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
76. Knowing **COUNTING-SORT** is required to --------------------------- **SORTING-IN-LINEAR-TIME**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
77. Knowing **GRAPH-ALGORITHM** is required to ---------------------------**SORTING-IN-LINEAR-TIME**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
78. Knowing **SORTING-IN-LINEAR-TIME** is required to --------------------------- **Algorithm**
	1. Remembering
	2. Applying
	3. Analyzing and Evaluating
	4. Create
79. Knowing **STACKS** is required to ---------------------------**RED-BLACK-TREES**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create
80. Knowing **ALGORITHM** is required to --------------------------- **GRAPH-ALGORITHM**
	1. Understanding
	2. Applying
	3. Analyzing and Evaluating
	4. Create