

In a greedy method, the algorithm works in stages and it considers how many inputs at a time?			
0	1	2	3
2. In Knapsack problem, the constraint is that the total weight of items must be _____ the capacity of Knapsack.			
Greater than or equal to	Less than or equal to	Can be both	None of the above
3. Knapsack problem where we can't take fractions is also known as _____			
0/1 Knapsack problem	Continuous knapsack problem	Divisible knapsack problem	Non continuous knapsack problem
4. The Knapsack problem is an example of _____			
Greedy approach	Divide and Conquer	Linear programming	None of the above
5. A spanning tree			
Does not have cycles	Cannot be disconnected	Both of the above	None of the above
6. What are the greedy methods for finding the minimal spanning tree?			
Prim's algorithm	Kruskal's algorithm	Both of the above	None of the above
7. Which data structure can be used to improve the time taken by minheap?			
Stack	Queue	Minheap	Maxheap
8. Which of these algorithm always select a minimum cost edge no matter whether it is connected or not?			
Prim's algorithm	Kruskal's algorithm	Merge Sort	None of the above
9. The Dijkstra algorithm can work on			
Directed graph	Undirected graph	Both of the above	None of the above
10. The Dijkstra algorithm always searches for _____ path.			
Shortest	Longest	Equal	None of the above
11. Out of these, the Dijkstra algorithm cannot work on _____.			
Directed edges	Undirected edges	Negative edges	None of the above
The Dijkstra algorithm follows _____.			

12.

Dynamic programming

Greedy method

Divide and Conquer

Quick sort

13. The time complexity when minheap is employed is

$O(n)$

$O(n^2)$

$O(\log n)$

Correct

$O(n \log n)$

14. Which of these approaches is used for solving optimal storage on tapes problem?

Greedy approach

Divide and Conquer

Backtracking

Branch and Bound

15. What is the computing time of tapes?

(1)

(n)

(log n)

None of the above

16. The ordering in tapes can be carried out in _____ time.

(1)

(n)

(log n)

(n log n)

17. As per greedy method, the programs are stored in _____ order.

Decreasing

Non-decreasing

Left to right

Right to left

18. The sum of all programs must be _____ of total length of tape

Sqrt

Less than

Greater than

None of the above