

Discussion Questions for “Data Structures”

1. What kinds of data structures have you used in previous programming projects? Did those data structures help organize the solutions to the problems you were trying to solve?
2. The professor described singly objects/classes, singly linked lists, doubly linked lists, ordered binary trees, and graph data structures. Have you had experience with other data structures? If so, what were they, and how would those data structures help resolve problems?
3. The Java library has many classes that may help resolve programming problems. Can you find implementations of any data structures that we talked about in the Java library? If so, which ones?
4. In all the examples coded by the professor, each node had a simple integer payload. How would you generalize these examples, so they handle more complicated payloads? Can you use a data structure solution?
5. What is the relationship between a data structure and a database?