

[ 문제은행 ]

20XX Spring/Fall Qualifying Exam.  
CRE508 Advanced Data Structures

ID:

Name:

1. Provide a formal definition of "Graph" data structure, and describe its differences to "Tree" data structure.
2. Describe the formal definition of "Big-Oh", "Big-Omega", and "Big-Theta" notation.
3. Model the World Wide Web with the "Graph" data structure.
4. Describe the formal definition of "Big-Oh" notation and its strength and weakness compared to real experiments in performance evaluation.
5. Describe the differences between "Binary tree" and "B tree" data structure.
6. Describe the differences between "B+ tree" and "B\* tree" data structure.

7. Provide a formal definition of “Max-heap” data structure.
8. Provide a formal definition of “B tree” data structure.
9. Provide a formal definition of “AVL tree” data structure.
10. Provide a formal definition of “M-way tree” data structure.