



R1-1 分数 2

作者 何钦铭 单位 浙江大学

During sorting n integers with Insertion Sort, it is possible that no element be placed in its final position before the last run.

 T F

答案正确：2分

R1-2 分数 2

作者 朱建科 单位 浙江大学

If the most commonly used operations are to visit a random position and to insert and delete the last element in a linear list, then sequential storage works the fastest.

 T F

答案正确：2分

R1-3 分数 2

作者 杨子祺 单位 浙江大学

The worst-case runtime complexity of finding the largest element in a min-heap with N elements is $O(\log N)$.

 T F[上一题](#) 单题作答[下一题 >](#)

R1-4 分数 2

作者 干红华 单位 浙江大学

In a flow network with the source S and the sink T, we can always have its maximum flow by finding out all paths from S to T and summing up the minimum weight of edge in each path, starting a path from S with the largest weighted edge.

 T F

答案正确：2分

R1-5 分数 2

作者 郑友怡 单位 浙江大学

Depth First Search on a graph uses Queue structure for its implementation.

 T F

答案正确：2分

R1-6 分数 2

作者 郑友怡 单位 浙江大学

14 distinct binary search trees can be created from 4 distinct keys.

 T F

答案正确：2分

R1-7 分数 2

作者 冯雁 单位 浙江大学

In hashing with quadratic probing to solve collisions, a new element can definitely be inserted if the table size is 23 and 11 cells are occupied.

 T F

答案正确：2分

R1-8 分数 2

作者 朱建科 单位 浙江大学

For sufficiently large N , $\log(N^2)$ grows faster than \sqrt{N} . (2分)

 T F

答案正确：2分

R1-9 分数 2

作者 陈翔 单位 浙江大学

Given a binary tree of which preorder traversal is 2 1 3 4 5 6 7 and postorder traversal is 4 3 6 5 2 7 1, then its in-order traversal can be uniquely determined.

Given a binary tree, of which preorder traversal is A B D C E F and postorder traversal is B D E C F A , then its inorder traversal can be uniquely determined.

T F

答案正确: 2 分

R1-10 分数 2:

作者 何钦铭 单位 浙江大学

During sorting $(35, 31, 47, 25, 37, 68, 45, 30)$ in ascending order(升序) with Merge sort of iterative version, $(25, 31, 35, 47, 30, 37, 45, 68)$ is the result of the second run.

T F

答案正确: 2 分