

-----Lab9-----

1. 基于数组顺序查找：

[Unsuccess]	[Size: 10000]	Spent: 27us
[Unsuccess]	[Size: 50000]	Spent: 101us
[Unsuccess]	[Size: 100000]	Spent: 180us
[Success]	[Size: 200000]	Spent: 280us
[Success]	[Size: 300000]	Spent: 275us
[Success]	[Size: 400000]	Spent: 276us
[Success]	[Size: 500000]	Spent: 283us

2. 基于单链表顺序查找：

[Success]	[Size: 10000]	Spent: 15us
[Success]	[Size: 50000]	Spent: 8us
[Success]	[Size: 100000]	Spent: 8us
[Success]	[Size: 200000]	Spent: 7us
[Success]	[Size: 300000]	Spent: 7us
[Success]	[Size: 400000]	Spent: 8us
[Success]	[Size: 500000]	Spent: 8us

3. 基于数组非递归二分查找：

[Success]	[Size: 10000]	Spent: 1us
[Success]	[Size: 50000]	Spent: 1us
[Success]	[Size: 100000]	Spent: 678ns
[Success]	[Size: 200000]	Spent: 742ns
[Success]	[Size: 300000]	Spent: 1us
[Success]	[Size: 400000]	Spent: 801ns
[Success]	[Size: 500000]	Spent: 1us

4. 基于数组递归二分查找：

[Success]	[Size: 10000]	Spent: 715ns
[Success]	[Size: 50000]	Spent: 680ns
[Success]	[Size: 100000]	Spent: 627ns
[Success]	[Size: 200000]	Spent: 689ns
[Success]	[Size: 300000]	Spent: 641ns
[Success]	[Size: 400000]	Spent: 650ns
[Success]	[Size: 500000]	Spent: 2us

5. 为数组a的数据建立二叉排序树并查找：

[Success] [Size: 10000] Spent: 2us

[Success] [Size: 50000] Spent: 520ns

[Success] [Size: 100000] Spent: 400ns

[Success] [Size: 200000] Spent: 369ns

[Success] [Size: 300000] Spent: 305ns

[Success] [Size: 400000] Spent: 297ns

[Success] [Size: 500000] Spent: 266ns

6. 递归查找输出二叉排序树中关键字不小于k(499990)的节点值:

{ 500000 499999 499998 499997 499996 499995 499994 499993 499992 499991 }

[Success] [Size: 10000] Spent: 115ms

{ 500000 499999 499998 499997 499996 499995 499994 499993 499992 499991 }

[Success] [Size: 50000] Spent: 104ms

{ 500000 499999 499998 499997 499996 499995 499994 499993 499992 499991 }

[Success] [Size: 100000] Spent: 106ms

{ 500000 499999 499998 499997 499996 499995 499994 499993 499992 499991 }

[Success] [Size: 200000] Spent: 112ms

{ 500000 499999 499998 499997 499996 499995 499994 499993 499992 499991 }

[Success] [Size: 300000] Spent: 113ms

{ 500000 499999 499998 499997 499996 499995 499994 499993 499992 499991 }

[Success] [Size: 400000] Spent: 109ms

{ 500000 499999 499998 499997 499996 499995 499994 499993 499992 499991 }

[Success] [Size: 500000] Spent: 112ms

7. 求二叉排序树指定节点层次，若树为空返回-1 若节点不在树中返回0:

{ 1999 } 返回: 1

[Success] [Size: 10000] Spent: 107ms

{ 1999 } 返回: 1

[Success] [Size: 50000] Spent: 116ms

{ 1999 } 返回: 1

[Success] [Size: 100000] Spent: 111ms

{ 1999 } 返回: 1

[Success] [Size: 200000] Spent: 108ms

{ 1999 } 返回: 1

[Success] [Size: 300000] Spent: 111ms

{ 1999 } 返回: 1

[Success] [Size: 400000] Spent: 107ms

{ 1999 } 返回: 1

[Success] [Size: 500000] Spent: 109ms

8. 判断是否从查找序列搜索的k关键字:

测试序列: { 12 213 } 0

[Success] [Size: 10000] Spent: 13us

测试序列: { 12 213 } 0

[Success] [Size: 50000] Spent: 3us

测试序列: { 12 213 } 0

[Success] [Size: 100000] Spent: 3us

测试序列: { 12 213 } 0

[Success] [Size: 200000] Spent: 3us

测试序列: { 12 213 } 0

[Success] [Size: 300000] Spent: 3us

测试序列: { 12 213 } 0

[Success] [Size: 400000] Spent: 3us

测试序列: { 12 213 } 0

[Success] [Size: 500000] Spent: 3us