

计算机等级考试二级VB常用算法(8)：排序 PDF转换可能丢失图片或格式，建议阅读原文

https://www.100test.com/kao_ti2020/237/2021_2022__E8_AE_A1_E7_AE_97_E6_9C_BA_E7_c97_237424.htm 1、算法说明

1) 顺序查找 逐个元素找，如果有，则记录位置，然后跳出循环；否则，查找失败。代码如下：Private Sub Search(a(), ByVal Key, Index As Integer) Dim i% For i = LBound(a) To UBound(a) If a(i) = Key Then 找到，将元素下标保存在index中并结束查找 Index = i Exit Sub End If Next i Index = -1 若没找到，则index值为-1 End Sub

2) 二分法查找 顺序查找效率低下，当数组有序排列时，可以使用二分法查找提高效率。算法思想：

代码如下：Private Sub birSearch(a(), ByVal low%, ByVal high%, ByVal Key, index%) Dim mid As Integer If low > high Then 没有查找到 index = -1 Exit Sub End If mid = (low + high) \ 2 取查找区间的中点 If Key = a(mid) Then 查找到，返回下标 index = mid Exit Sub Else If Key > a(mid) Then 查找区间在下半部分 Else low = mid + 1 End If Call birSearch(a, low, high, Key, index) 递归调用查找函数 End Sub

调用方法：Private Sub Command1_Click() Dim a(11) a(1) = 5: a(2) = 13: a(3) = 19: a(4) = 21: a(5) = 37 a(6) = 56: a(7) = 64: a(8) = 75: a(9) = 80: a(10) = 88: a(11) = 92 Dim ind As Integer Call birSearch(a, LBound(a), UBound(a), 21, ind) Print ind End Sub

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