

计算机考试二级VB常用算法(7)：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_ti2020/166/2021_2022__E8_AE_A1_E7_AE_97_E6_9C_BA_E8_c97_166250.htm

1、算法说明数组中元素的插入和删除一般是在已固定序列的数组中插入或删除一个元素，使得插入或删除操作后的数组还是有序的。基本思路：首先要找到插入位置或要删除的元素。1) 插入代码如下：

```
Private Sub Command1_Click()
    Dim a(10) As Integer
    Dim i As Integer, k As Integer
    For i = 0 To 9
        生成数组 a(i) = i * 3
    Next i
    Print a(i)
    Print "插入14"
    For k = 0 To 9
        查找插入14在数组中的位置
    Next k
    For i = 9 To k Step -1
        从最后元素开始逐个后移，腾出位置
    Next i
    a(k) = 14
    插入数14
    For i = 0 To 10
        Print a(i)
    Next i
End Sub
```

2) 1 4 7 10 13 16 19 22 25 28 K 删除代码如下：

```
Dim a() as integer .... ReDim a(1 to n) ...
For i=k 1 to n
    a(i-1)=a(i)
Next I
Redim preserve a(1 to n-1)
```

2、实战练习 1) 补充代码（2001秋二（8））C盘根目录下文件Data4.txt的内容是：2, 4, 6, 8, 10, 1, 3, 5, 7, 9。下面程序的功能是将文件后半部分的奇数分别按序插入到前半部分的适当位置，得到的新数列是：1 2 3 4 5 6 7 8 9 10。（实现方法：第一次调整后的数列是：1 2 4 6 8 10 3 5 7 9第二次调整后的数列是：1 2 3 4 6 8 10 5 7 9）。

```
Option Explicit
Private Sub Form_Click()
    Dim A(10) As Integer, i As Integer, J As Integer
    Open "c:\Data4.txt" For Input As #12
    Do ( 1 ) J=J+1 Input #12,A(J) Loop
    Call Insert(A)
    For i=1 To 10 Print A(i). Next i
    Print Close #12
End Sub
Private Sub Insert(A() As Integer)
    Dim i As Integer, Putp As Integer, J As Integer
    Dim Getp As Integer, N As Integer, Tem As
```

```
Integer N=UBound(A)/2 Putp=1 Getp=N-1 For i=1 To N
Tem=A(Getp) For J=Getp To Putp-1 Step -1 (2) Next J
A(Putp)=Tem Getp=Getp+1 Putp= (3) Next i End Sub 2) 补充
代码 (2001春二(8)) 下面程序的功能是将无序数组中相同
得数只保留一个,其余得删除,并输出经过删除后的数组元
素,删除相同数是通过将该数组元素后面的元素在数组内依
次前移替换前一个元素的值实现的。数组各元素的值从文
件data.txt中读取。 Option Explicit Option Base 1 Private Sub
Form_Click() Dim I As Integer,J As Integer,K As Integer Dim A()As
Integer,T As Integer,M As Integer Open "c:\my
documents\2000test\data.txt" For Input As #1 Do While (1) I=I+1
Redim Preserve A(I) Input #1,A(I) Loop M=1:T= (2) Do While
M I=M+1 Do While I If A(I)=A(M)Then For J=1 To (3)
A(J)=A(J+1) Next J T=T-1 Else I= (4) End If Loop M=M+1 Loop
Redim Preserve A(T) For I=1 To T Print A(I). Next I Print End Sub
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```