

```

'advance the pad
NEXT
FOR X% = 1 TO NumFields%
    ThisLen% = FldLen%(X%)
    FIELD #FileNum%, Pad AS Dummy$, ThisLen% AS Dat$(X%)
    'advance the pad
NEXT
END SUB

SUB ReadFile (FileNum%, RecordNumber%) STATIC
    GET #FileNum%, RecordNumber%
END SUB

SUB WriteFile (FileNum%, RecordNumber%) STATIC
    PUT #FileNum%, RecordNumber%
END SUB

```

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'Sample BASIC program printout
DECLARE SUB OpenFile (FileName$, RecLen%, Dat$( ), FldLen$( ), FileNum%)
DECLARE SUB ReadFile (FileNum%, RecordNumber%)
DECLARE SUB WriteFile (FileNum%, RecordNumber%)

CONST Max% = 5
FileName$ = "FIELD.DAT"
'we'll use five data fields
'this is the file name to open
REDIM Contents$(1 TO Max%)
'holds the file data contents
REDIM Lengths$(1 TO Max%)
'holds the field lengths

RecLength% = 0
FOR X% = 1 TO Max%
    READ Lengths$(X%)
    RecLength% = RecLength% + Lengths$(X%)
NEXT

'----- open the data file and assign some sample data
CALL OpenFile(FileName$, RecLength%, Contents$( ), Lengths$( ), FileNumber%)
FOR X% = 1 TO Max%
    READ Temp$
    LSET Contents$(X%) = Temp$
NEXT

RecNumber% = 1
CALL WriteFile(FileNumber%, RecNumber%) 'write the data to record number 1
CALL ReadFile(FileNumber%, RecNumber%) 'read the data back again

FOR X% = 1 TO Max%
    PRINT "{"; Contents$(X%); "}"
NEXT

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    PRINT "{"; Contents$(X%); "}"
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FOR X% = 1 TO Max%
    PRINT "{"; Contents$(X%); "}"
NEXT

CLOSE #FileNumber%

SUB OpenFile (FileName$, RecLen%, Dat$( ), FldLen$( ), FileNum%) STATIC
    FileNum% = FREEFILE
    OPEN FileName$ FOR RANDOM AS #FileNum% LEN = RecLen% 'open the data file
    NumFields% = UBOUND(FldLen%)
    Pad = 0
    FOR X% = 1 TO NumFields%
        ThisLen% = FldLen%(X%)
        FIELD #FileNum%, Pad AS Dummy$, ThisLen% AS Dat$(X%) 'field it
        Pad = Pad + ThisLen%
    NEXT
    FOR X% = 1 TO NumFields%
        ThisLen% = FldLen%(X%)
        FIELD #FileNum%, Pad AS Dummy$, ThisLen% AS Dat$(X%) 'field it
        Pad = Pad + ThisLen%
    NEXT
    FOR X% = 1 TO NumFields%
        ThisLen% = FldLen%(X%)
        FIELD #FileNum%, Pad AS Dummy$, ThisLen% AS Dat$(X%) 'field it
        Pad = Pad + ThisLen%
    NEXT
    FOR X% = 1 TO NumFields%
        ThisLen% = FldLen%(X%)
        FIELD #FileNum%, Pad AS Dummy$, ThisLen% AS Dat$(X%) 'field it
        Pad = Pad + ThisLen%
    NEXT

```