

```

NEW
OK
10 DEF STR S
20 REM FIRST GET THE DESIRED NUMBER OF NAMES
30 INPUT "Number of names" N
40 DIM S(N)
50 REM NEXT GET THE NAMES
60 FOR I = 1 TO N
70 INPUT "Name" S(I)
80 NEXT I
90 REM BUBBLE SORT THE NAMES AND PRINT THE SORTED RESULT
100 PRINT "Sorted name list:"
110 FOR I = 1 TO N-1
120 FOR J = I+1 TO N
130 IF S(I) > S(J) THEN GOSUB 200
140 NEXT J
150 PRINT S(I)
160 NEXT I
170 END
200 REM SWITCH THE VALUES S(I) AND S(J)
210 STEMP = S(I)
220 S(I) = S(J)
230 S(J) = STEMP
240 RETURN
RUN
Number of names? 5
Name? Wilson
Name? Smith
Name? Jones
Name? Adams
Name? Smithson
Sorted name list:
Adams
Jones
Smith
Smithson
Wilson

```

OK

String Functions

You can DEFINE your own string functions in Extended XYBASIC, in the same way as described under DEF FN in Section 3 above. The following example DEFINES a function named ROT\$ which rotates its string argument to the left. Note the power of XYBASIC's user-DEFINED functions, which let you write functions taking both string and numeric arguments.

```

NEW
OK
10 DEF FN ROT$ (A$, I) = MID$ (A$, I+1) + LEFT$ (A$, I)
20 INPUT "STRING, COUNT" A$, I
30 PRINTA$;" ROTATED LEFT"; I; "PLACES IS "; FN ROT$ (A$, I)
40 PRINT
50 GOTO 20

```