

Shell Sort

For completeness, below is an MMBasic version of a Shell sort - it is about four to five times faster than a bubble sort but does have a serious caveat in that it can fail if the data is in an unfortunate order - this is just a fact of life for Shell sort. That said, it is very unlikely to happen but be warned.

Before choosing a sort algorithm, read [this article](#).

Example:

Option Base 0

```
Dim xx As Integer
xx=my_arraysize      'lack of UBOUND() means we have to manually track
the array size
Dim SP$(xx)
ShellSort xx
```

ShellSort:

```
SUB ShellSort(SPTop)
  LOCAL INTEGER i,j
  LOCAL FLOAT k
  LOCAL STRING a$
  k = INT(SPTop / 2)
  WHILE k > 0
    FOR i = 1 to SPTop
      j = i
      a$ = SP$(i)
      WHILE (j >= k+1 AND SP$(ABS(j-k)) > a$)
        SP$(j) = SP$(j-k)
        j = j - k
      WEND
      sp$(j) = a$
    NEXT
    IF k = 2 THEN
      k = 1
    ELSE
      k = INT(k * 0.454545) ' 5/11 sort balancing value
    END IF
  WEND
END SUB
```

From:

<http://fruitoftheshed.com/wiki/> - **FotS**

Permanent link:

http://fruitoftheshed.com/wiki/doku.php?id=mmbasic:shell_sort

Last update: **2024/01/19 09:30**

