Rinson

Bubble Sort using structure

Algorithm

struct brot

1) Start
2) Read array [100]
3) stop

int main ()

1) start
2) struct brot b
3) Read n
4) Repeat through 4.1

  4.1) for (i=0; i<n; i++)
    Read barray[i]

5) Repeat through 5.1
for (i=0; i<n-1; i++)
for (j=0; j<n-1; j++)
if (barray[j] > barray[j+1])
Swap = barray[i]
barray[i] = barray[i+1]
barray[i+1] = Swap

6) Repeat through 6.1

  6.1 : for (i=0; i<n; i++)
  Print barray[i]

7) stop

Flowchart

```
         ( Start )
             │
             ▼
   / Input array [100] / ───────▶ ( Stop )


          ( Start )
             │
             ▼
        / Read n /
             │
             ▼
   < for(i=0; i<n; i++) >───────┐
             │                   │
             ▼                   │
   / Read barray[i] /            │
             │                   │
             ◀───────────────────┘
             │
  R          ▼
  ┌──< for(i=0; i<n-1; i++) >
  │          │
  │ R        ▼
  ├──< for(j=0; i<n-1; j++) >
  │          │ T
  │          ▼                      ┌──────────────────────────┐
  │        ╱ if ╲      T            │ Swap = barray[j]         │
  │       ╱ array[j]> ╲ ──────────▶ │ barray[j]= barray[i+1]   │
  │       ╲ bary[j+1] ╱             │ barray[i+1] = Swap       │
  │          ╲    ╱                 └──────────────────────────┘
  │           │                              │
  │           ▼                              │
  └──< for(i=0; i<n; i++) >◀─────────────────┘
             │
             ▼
   / print barray[i] / ───────▶ ( Stop )
```