

Maximum element

1000

Integer array sorts

- ☒ Heap sort
- ☐ Quick sort
- ☐ Bubble sort

Number of items

9

☒ Show items

Start

New Elements

Time taken (milliseconds)

131

Output

```
Initial array:
769 797 60 478 275 843 633 7 609

Starting heap sort...
Sort complete.

Sorted array:
3 7 27 35 43 57 60 65 69
```

Clear Output

Maximum element

Integer array sorts

- ☒ Heap sort
- ☐ Quick sort
- ☐ Bubble sort

Number of items

☒ Show items

Start

New Elements

Time taken (milliseconds)

Output

```
Initial array:
769 797 60 478 275 843 633 7 609 967

Starting heap sort...
Sort complete.

Sorted array:
3 7 27 35 43 57 60 65 69 96
```

Clear Output

I don't have a table of outputs and the times taken for each sorting algorithm because the ancient applet provided was gecked and did not time properly (kept giving 0 ms for sorts other than heap).

- a) Probably
- b) Small arrays: Bubble. Large arrays: Quick or Merge
- c) Other than gecked out applet not timing, no