In the lab-classes we experiment with binary heaps.

- 1. You investigate binary heaps and HEAP-SORT.
- 2. For this the program Heap. java is to be investigated.

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Look into Heap. java and understand the code. *Explain questions in the comments*.

- 1. How can we constitute to be considered that constitute the constitution of the cons
- 2. What is heap_property computing?
- 3. There are two method which the lize of which are they? der
- 4. Identify the examples from the lecture in the main-function.

2 Running an example

Consider the sequence

20, 0, 26, 33, 4, 15, 7, 27, 2, 1, 33, 25, 0, 30, 21, 10, 5.

- 1. Build a binary heap from that sequence, first on paper, and then check via the implementation.
- 2. Now run HEAP-SORT on that sequence, computing one after another all the binary heaps which are created on the way (as we had it in the example from the lecture). After you did this on paper, modify the code so that it prints out this sequence of heaps.