











## Facts about Heaps

## Observations:

- · finding a child/parent index is a multiply/divide by two
- operations jump widely through the heap
- · each percolate step looks at only two new nodes
- inserts are at least as common as deleteMins

## Realities:

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· division/multiplication by powers of two are equally fast

Binomial Queues

- · looking at only two new pieces of data: bad for cache!
- · with huge data sets, disk accesses dominate































































