## 6.1-7.

Show that, with the array representation for storing an n-element heap, the leaves are the nodes indexed by  $\lfloor n/2 \rfloor + 1, \lfloor n/2 \rfloor + 2, ..., n$ .

## Proof.

The last non-leaf node is the parent of index n, which has its index  $i = \lfloor n/2 \rfloor$ . All the nodes subsequent to it are leaves, and thus indexed by  $\lfloor n/2 \rfloor + 1, \lfloor n/2 \rfloor + 2, ..., n$ .

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