

10. [4] For an entry in our heap (root @ index 1) located at position i , where are it's parent and children?

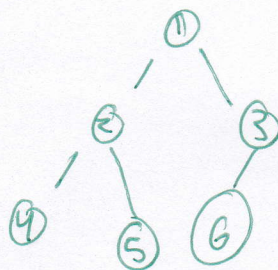
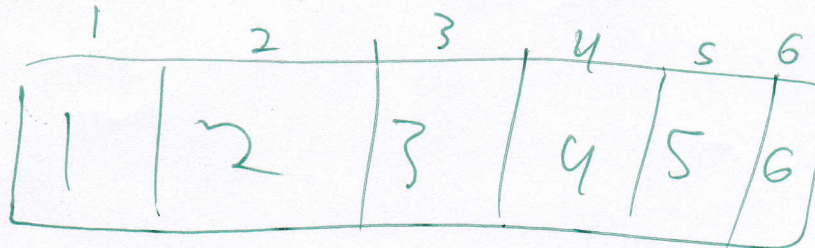
Parent: The parent is located at $i/2$

Children: The children are located at

Left child = $2 \cdot i$

Right child = $(2 \cdot i) + 1$

work



node

$4/2$

"

2

✓

$5/2$

"

2✓

2×2
" 4

$2 \times 2 + 1$
" 5

$3 \times 2 = 6$
✓