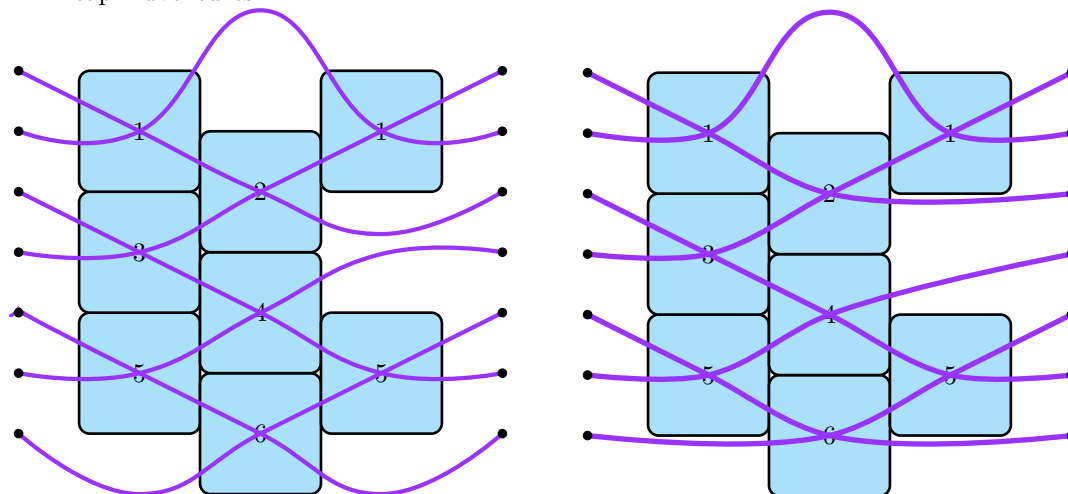
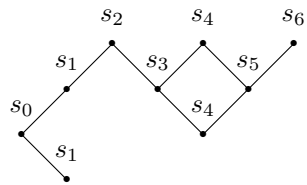


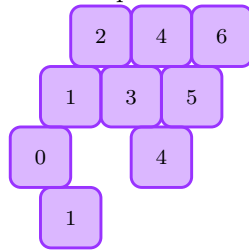
# Heap Adventures



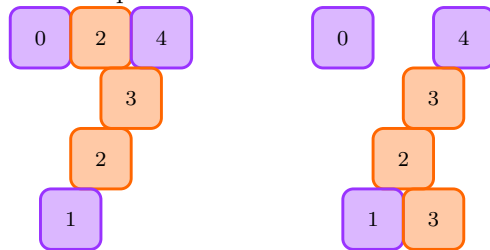
Experiments for Thesis ...  
 Example 1.4.1



Example 1.4.2



Example 1.4.3



Finite Irreducible Coxeter Graphs Figure

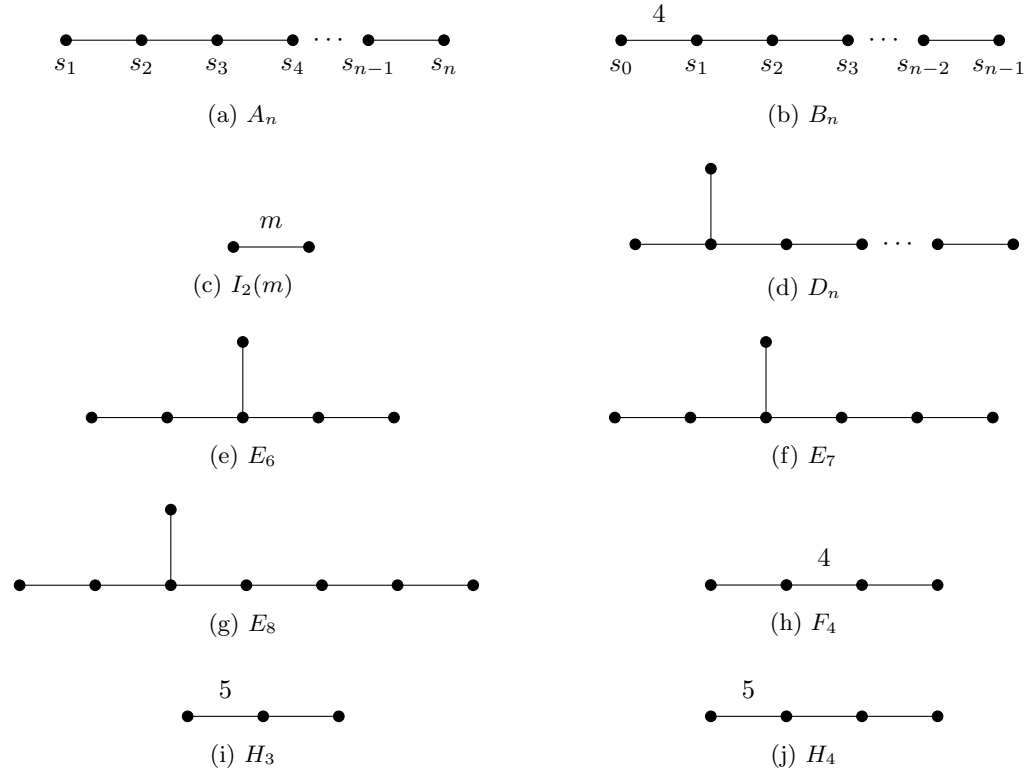


Figure 1: Coxeter graphs corresponding to the finite Coxeter groups.

Affine Coxeter Graphs Figure

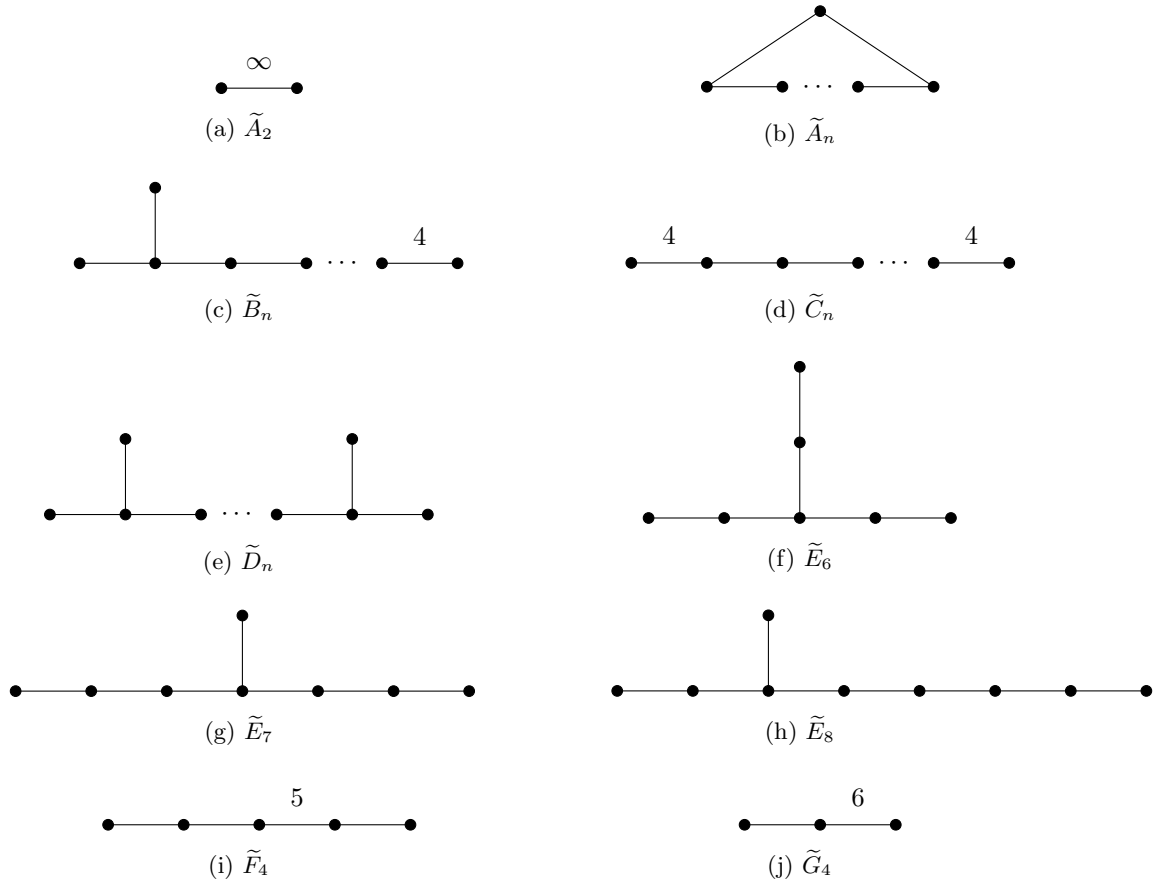


Figure 2: Coxeter graphs corresponding to the infinite Coxeter groups

FC-finite Coxeter Groups

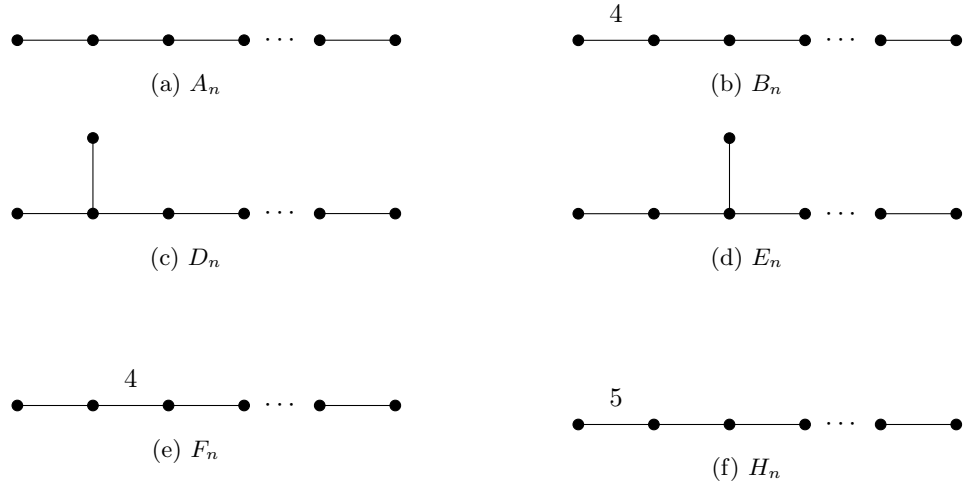


Figure 3: Coxeter graphs corresponding to the FC-finite Coxeter groups.

Star Reducible Heaps

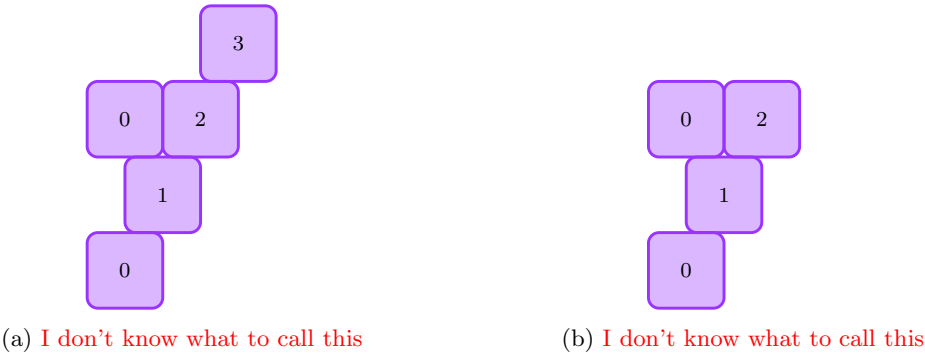


Figure 4: Visualization of Example ??

Weak Star Reducible Heap

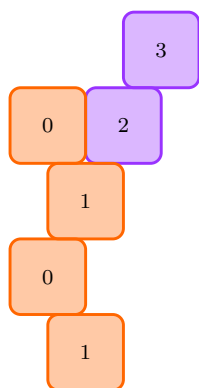
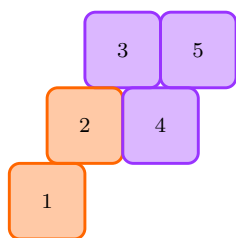


Figure 5: I don't know what to call this

Heaps for Property-T Section



(a) Heap of an element with Property-T



(b) Heap of a T-Avoiding element

Figure 6: Heaps of an element with Property-T and a T-Avoiding element

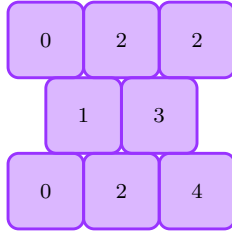
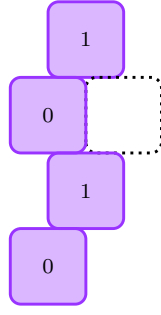
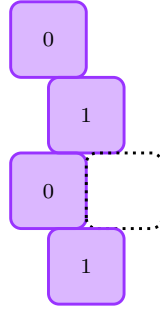


Figure 7: Heap of a non-trivially T-Avoiding element in  $W(\tilde{C}_4)$ .

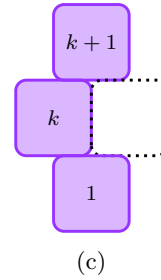
Impermissible subheaps for elements in FC groups



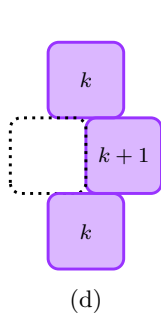
(a)



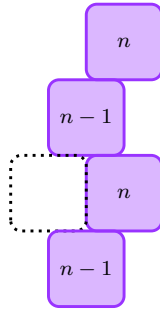
(b)



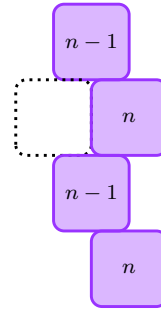
(c)



(d)



(e)



(f)

Figure 8: Impermissible subheaps for elements in  $FC(\tilde{C}_n)$ .



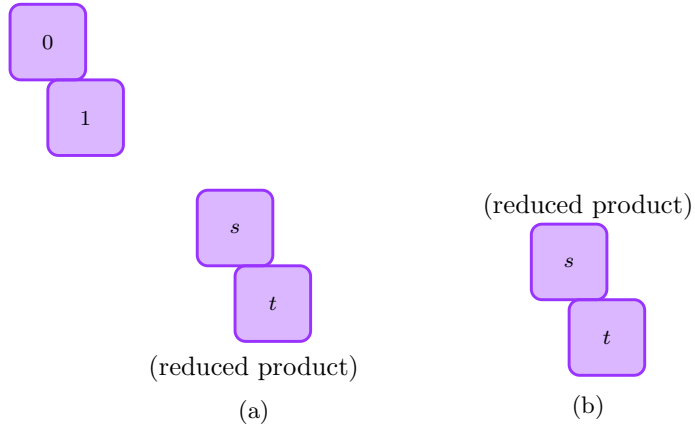


Figure 9: A visual representation of Property T.

Single Bowtie

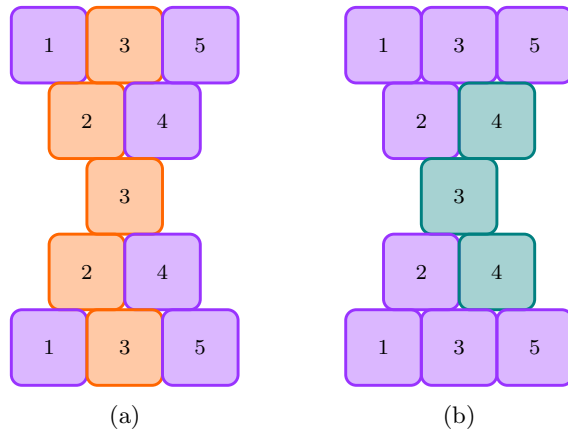


Figure 10: A single bowtie in  $W(F_5)$ .

Labeled Coxeter Graphs that the thesis deals with

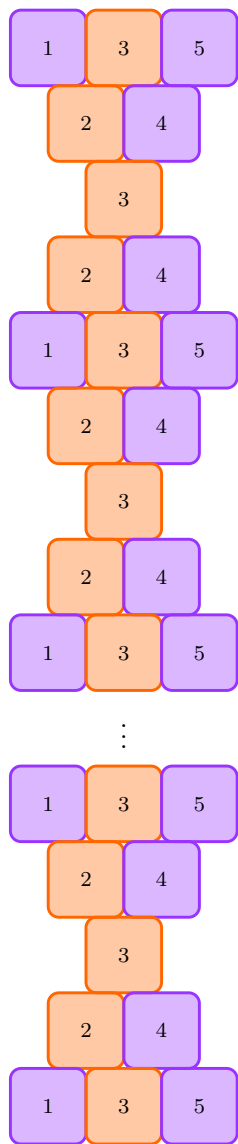


Figure 11: A stack of bowties in  $W(F_5)$ .

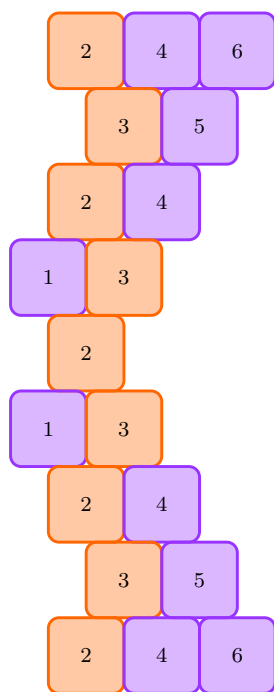


Figure 12: A non-trivial T-avoiding element in  $W(F_6)$

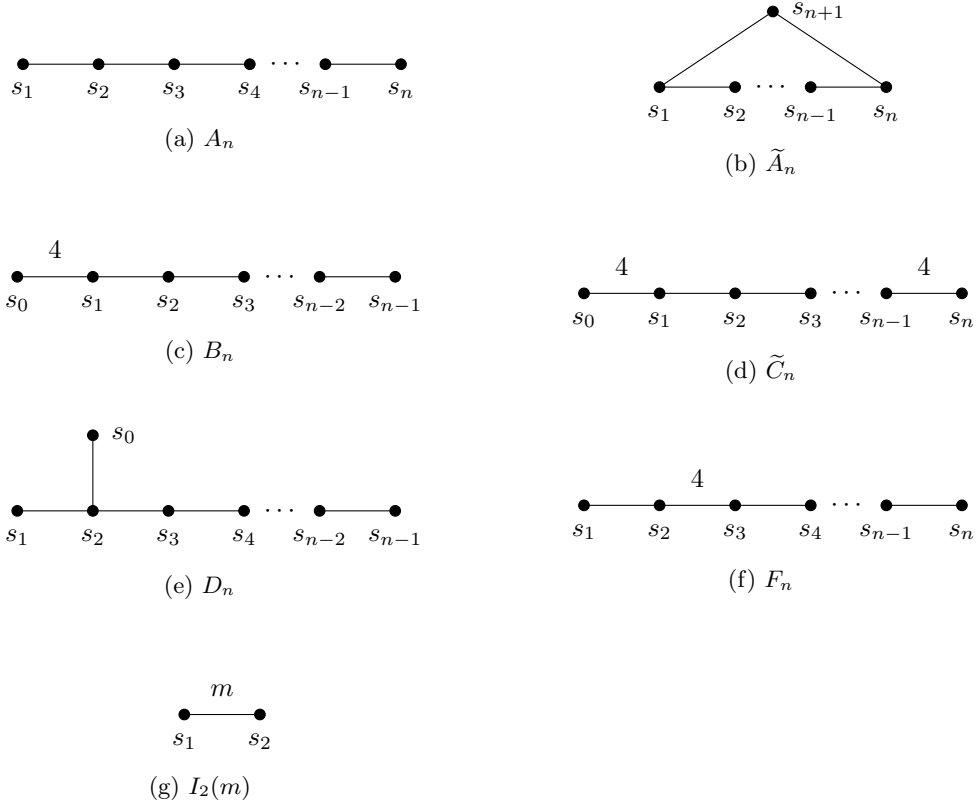


Figure 13: Labeled Coxeter Graphs

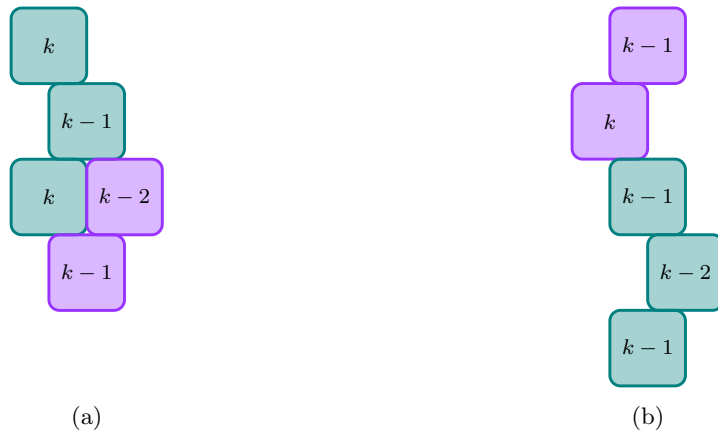


Figure 14: Visual representation of the heap configuration discussed in Case 1a.



Figure 15: Visual representation of the heap configuration discussed in Case 1b.

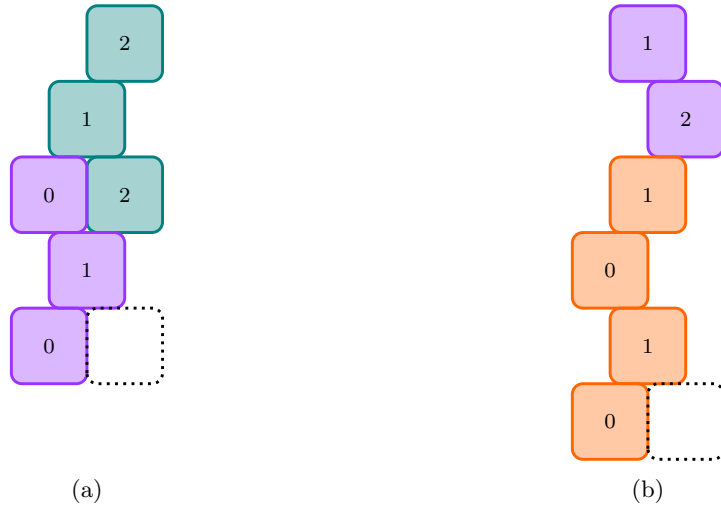


Figure 16: Visual representation of the heap configuration discussed in Case 2a.

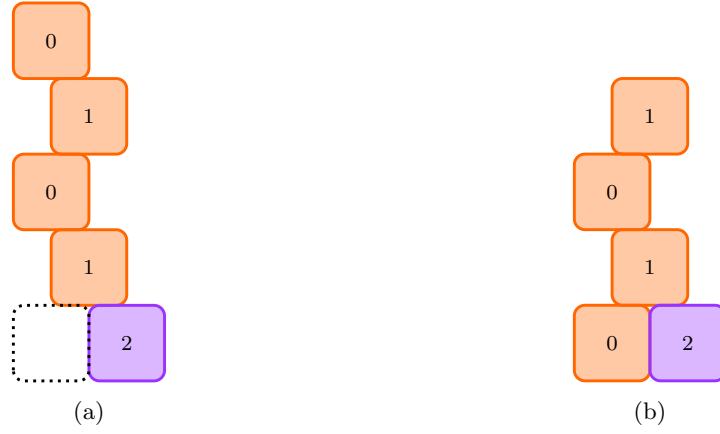


Figure 17: Visual representation of the heap configuration discussed in Case 3a.



Figure 18: Visual representation of the heap configuration discussed in Case 3b.

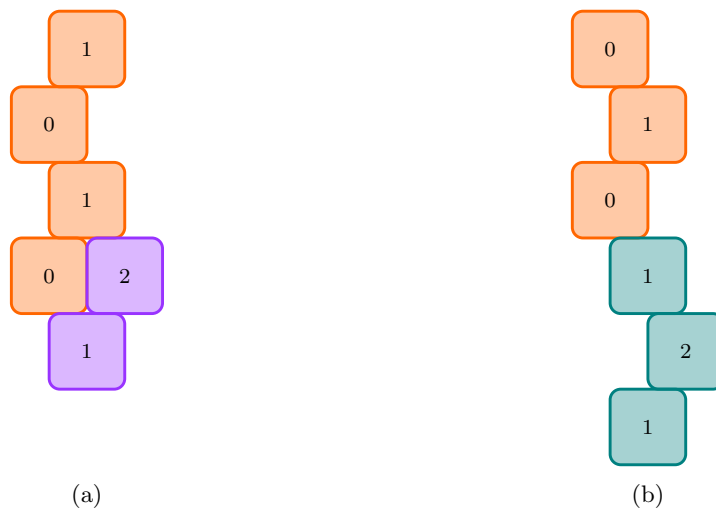


Figure 19: Visual representation of the heap configuration discussed in Case 4.

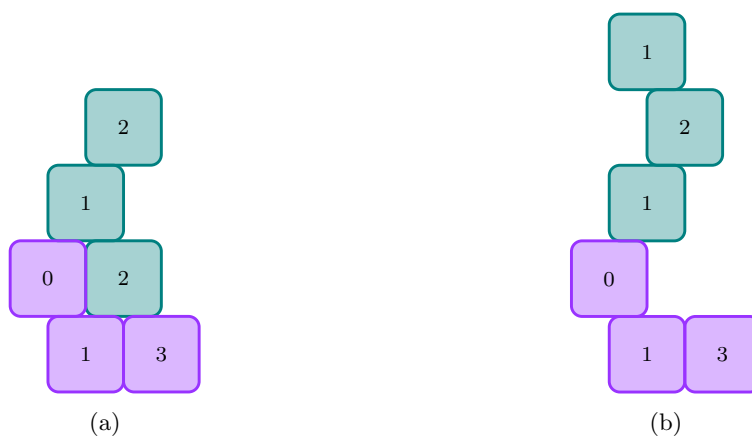


Figure 20: Visual representation of the heap configuration discussed in Case 2b.

