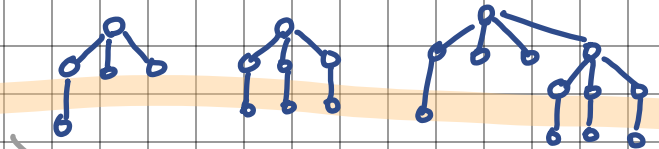
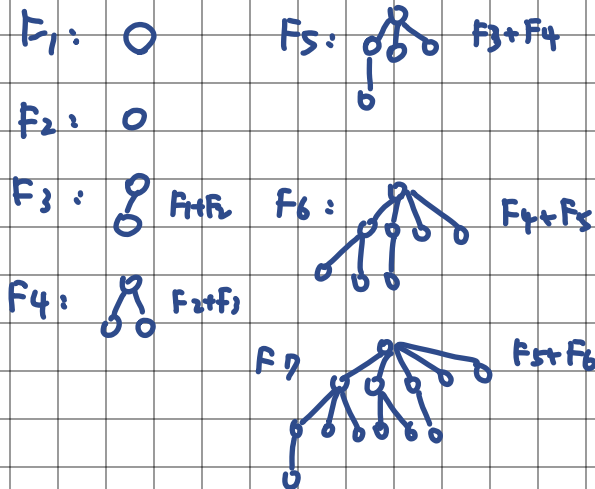
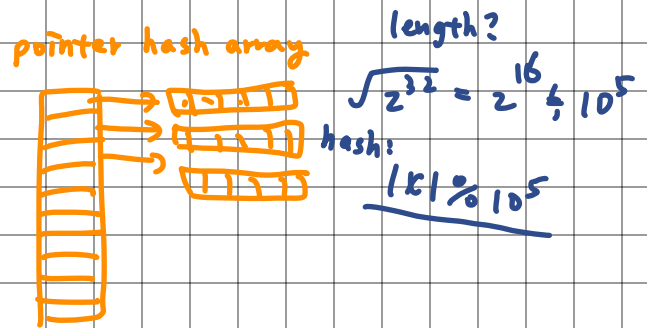


psysh

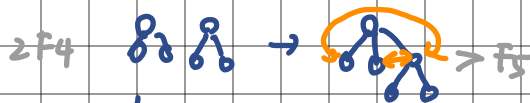
Data Structure - Hw2-2, f-heap.



key?
 meld: F_{k-1} or F_{k+1} 是否有.
 $\Rightarrow \text{meld}(F_{k-1}, F_k)$ or (F_k, F_{k+1}) .



We meld same degree tree and
 It's B-heap not F-heap ???
 key 小的为 root



f: Decrease key:

if smaller than parent: cutoff
 else: do nothing, just change the value

f: Cut-Out

move node into root list

\rightarrow check parent (flag) \rightarrow cutoff (parent) \rightarrow mark parent.

for sibling 顺序用来排序嘛

\downarrow
 2, 1 个 structure
 没有它 它的 child
 list.

f: extract

① remove topMin, insert (its children)

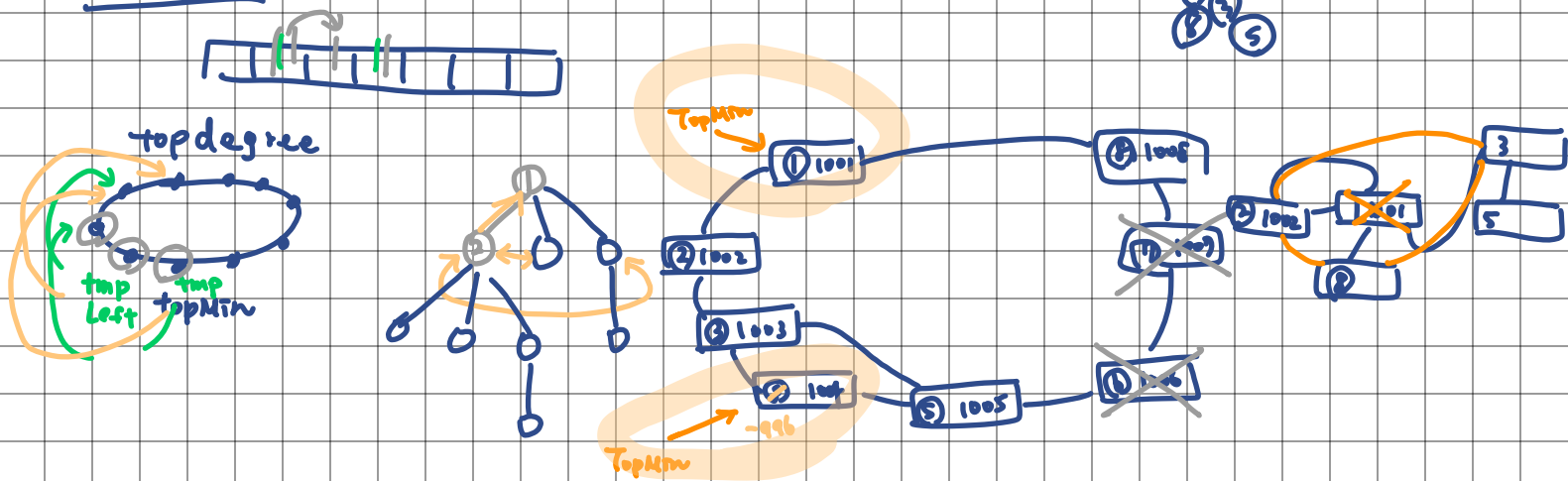
② clean up (meld)

table [] at most $\log n$
 \downarrow
 pointer

\rightarrow another function (有冗余)

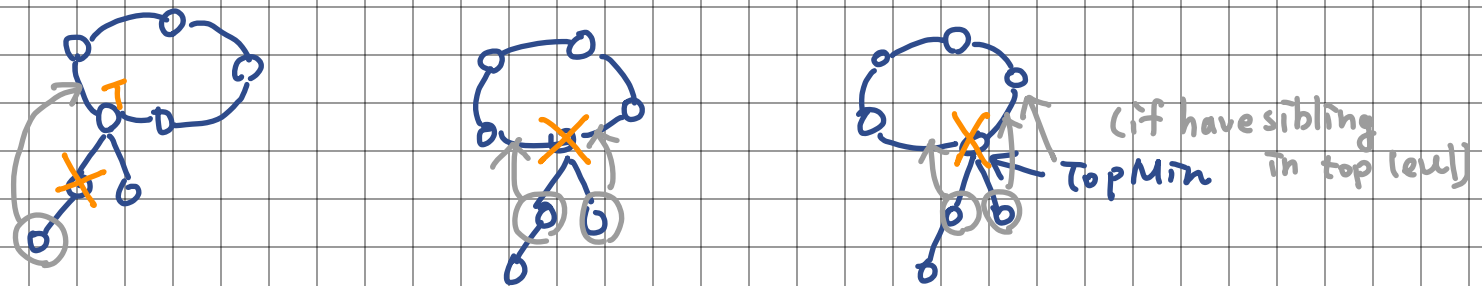
③ rebuild heap.

f: meld



f: delete

insert all child into top level



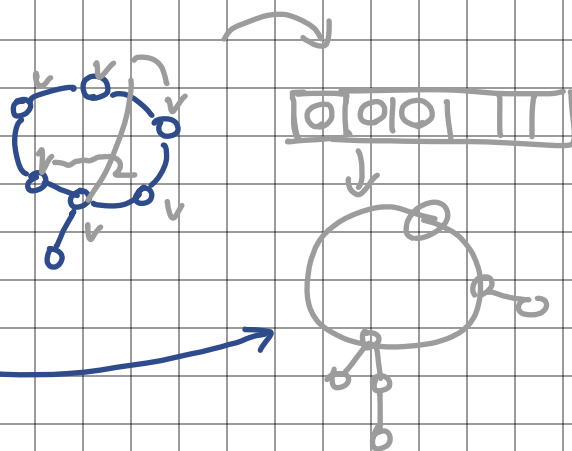
f: extract

① print out

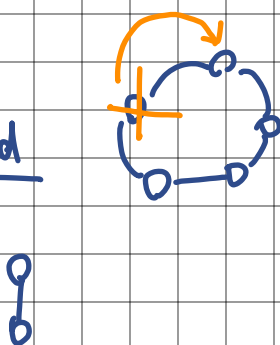
② delete top Min

③ meld the heap

④ rebuild



f: meld



tree 1 tree 2
① ← ②
parent