4. timbre megrir di cob grobanomenic

znerettanne, un one cort fonomerill qéponomen, e »

=> timpue modiu = timpue delavoralie =

timpue Ranasabric

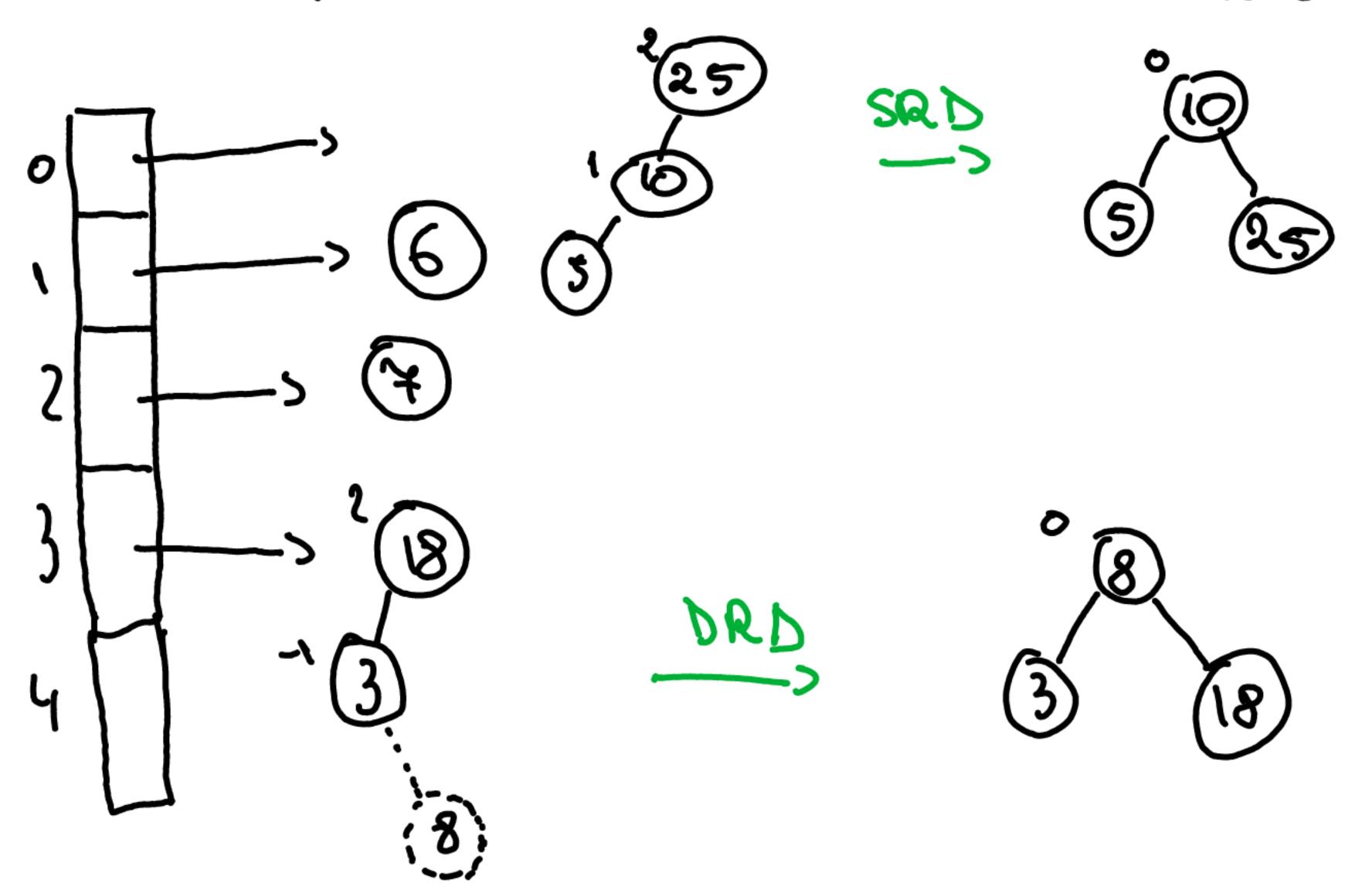
$$T(m) = \begin{cases} \frac{1}{2}, m = 1 \\ \frac{1}{2}T(m/2) + 1, m \neq 1 \end{cases}$$

Notain m = aB = bB = eag n T(aB) = aT(aB-T) + 1

$$\frac{T(1)}{T(1)} = \frac{1}{1 \cdot 2^{k}}$$

$$(T(2^{k}) = 1 + Q + ... + 2^{k} = 1. \frac{2^{k+1}-1}{2-1} = 2^{k+1}-1 = T(n) \in O(n)$$

B. d(c) = c mod 5 coletioniel sont soit. Pour interntuse, lossind orean. Un bf. momorage captionifor



4 fost menois de cob. de : dropp, sat opresible si simble.

```
C1. Timpul delouosourie pt. Heap Soort este
 O(wead w) representente bateur abbeier absorption de
 3 torgore de mori ser avaind timpur defav. O (Pagn),
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  + se boutes montioner reporce red-vir esser in between it is con
 cose constantier amen, ansametr -> 0(2)
 my timp amin
 -bouter ca, e agardaya mu us. war, sa no donous
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- ju constre stondarii. Lanto redamentebb nous trabin.
mutate en a basitio shore etampa? banton a
 o. Food de Imprées l'assentimes en costro
            unde mer se anomitiamas
  Nood: 1 perteum sa timem direct nivelle
                        Azeone:
     C: TEcoment
                          2: 1 March ( radarina arlavellui)
     84: 1 mod
     dr: 1 wood
                           e: 1 wood CI -> vect. de pointersi mod
                           n: Johtzeg []
    subalgeruitm poscurge-BFS (à, e, e) este
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         post: se ret-comeatra "da sou "nu!
            'mu'-> alaca celle 2 ellemente nu se afla pe a celasi
           John 2003 in cast monthous
```

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crosser (c) j se crosser à cocada; c e coada j
nivel-dat - 1; raspuns 1- "nu"
paca a se # vir atanci.
   adauga (c.e, a.z.)
sphachugacc.m, o
cât Timp 7 viola (c.e) executa
      340006 (c.626)? 340006 (c.w.) (c.w.)
             paca, [6]. 6 = 6 atomor.
                 paca, wineb - got = -1 ofener.
                      min66-gpt r- bus
                 althe
                      paca, wines - gat = bu atawa.
                           maspouns c- 4 da 4
                       Sepra
                      QOTZ @
                   SR baca-
              SRBacco
           10000, 60 = 6, otenoci.
               paca wined - got = -1 atenuci.
                   win66-907 r- bus
               althe
                    Daca mivel - dat = pm atuma.
                        rabouns c- 4 da 4
                    Selaca
                    9072 D
                 SR baca-
             SRBacco
         Bros CBJ. St + Nic atemor.
```

adauga (c.e, [p].st)
adauga (c.e, [p].st)
sersaca

poca Eb2.qu + vir ofener.

adauga (c.e, 2p3.db)

adauga (c.m, pm+1)

Speca

sk cât Timp

parciage-BFS (- raispans

SR Sule algori+m

comperitate: O(2) -> Cimigrat (time)

cambberitage abotin adritional A(w) -> b+ cool or