Cost lonarabic = cost golonarapric < cost megrin => +impi

megrin d'abbanasagne, nous les édongs,

$$T(m) = \begin{cases} \lambda & m = 1 \\ 2T(m(2) + \sum_{i=1}^{m-1} \sum_{j=1}^{i+1} 1 \\ \sum_{i=1}^{m-1} \sum_{j=1}^{i+1} 1 \end{cases} = \sum_{i=1}^{m-1} (i+1) = 2 + 3 + \dots + m = \frac{(m+2)(m-1)}{2}$$

Notam m=2 k

$$T(x^{k}) = 2T(x^{k-1}) + \frac{(x^{k}+2)(x^{k-1})}{2}$$

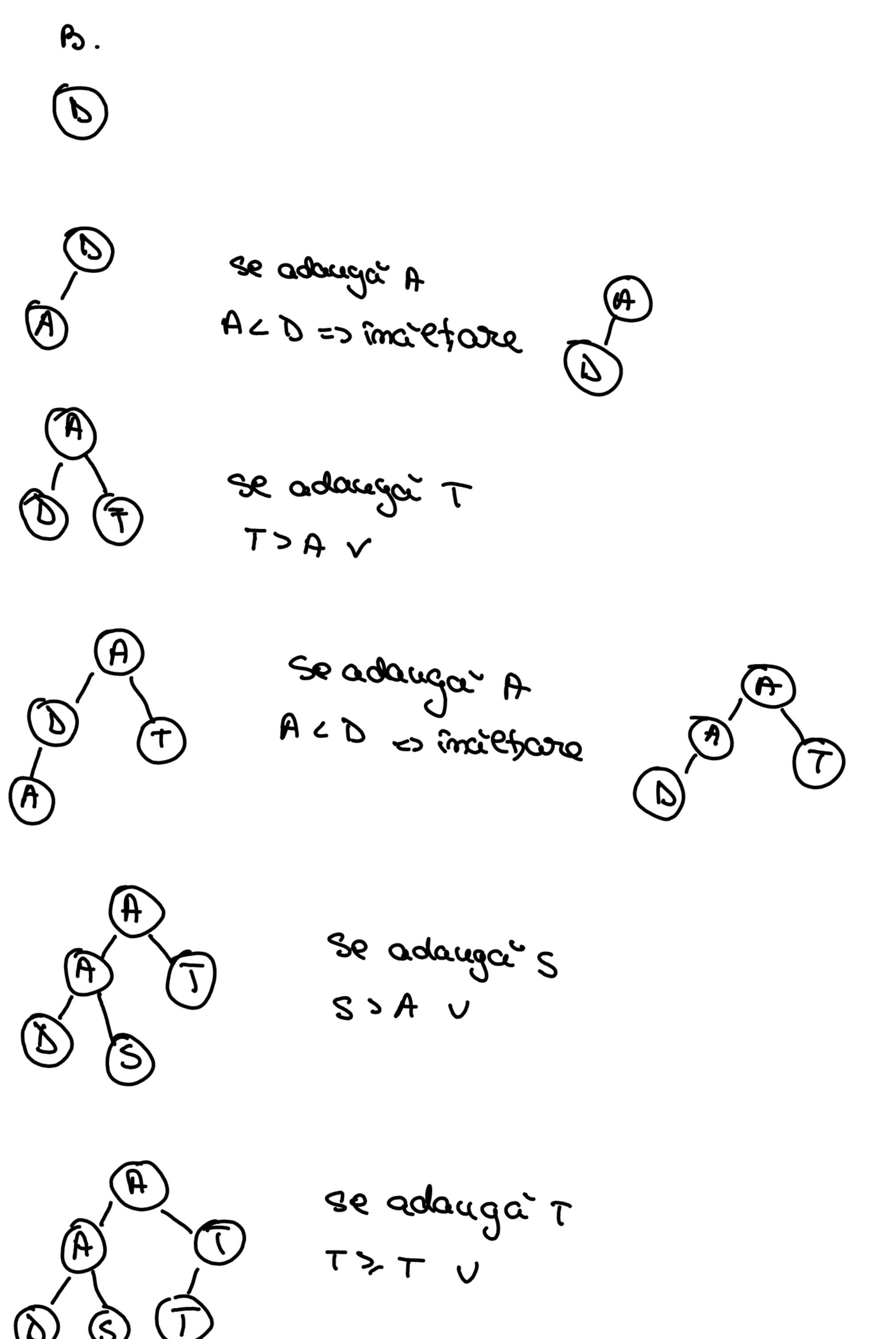
$$T(x^{k-1}) = 2T(x^{k-2}) + \frac{(x^{k-1}+2)(x^{k-1})}{2}$$

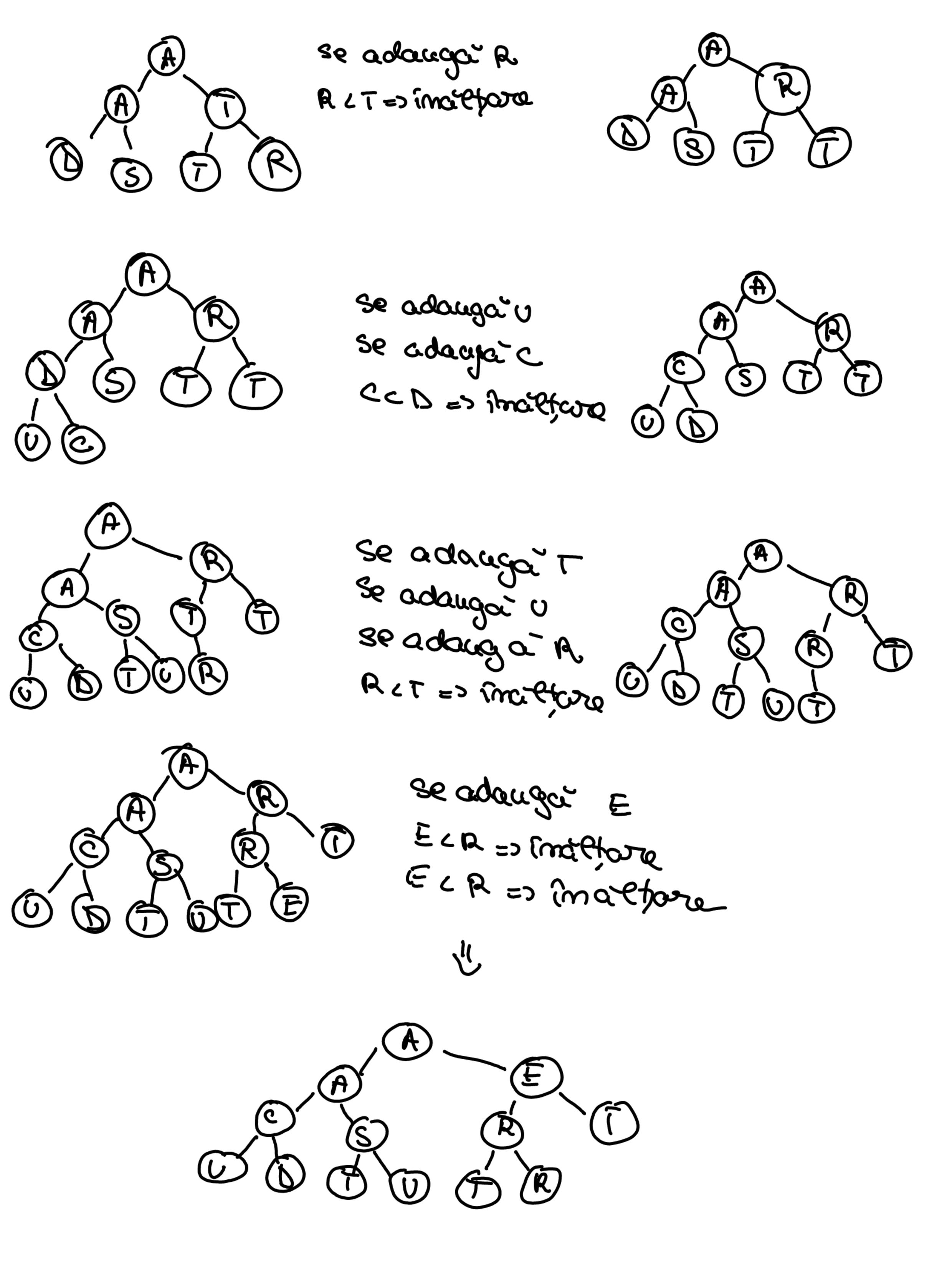
$$\vdots$$

$$T(x) = 1$$

$$T(2^{Q_1}) \simeq \frac{2^{Q_1}}{2} + \frac{2^{Q_1}}{2} + \frac{2^{Q_1}}{2} + \cdots + \frac{1}{2}$$

$$= 2^{R} \cdot \frac{2^{R} - 1}{2 - 1} = 2^{2R} = 2^{2R$$





CI. Nor. minimare mogran. entr- ma or écore

pain de adameime 3 este: 15 e)

your se gosposassas baberen, or:

joate cele 1 vine6mi. empt beime:

10001 c-0

7-> 9 wagner,

2 -> 4 madeuri

3 -> 8 wagner.

Ju total: 1+2+118 = 3+15 = 12 wagner.

Ch. Could defoussable pt coeltare lumonoù intro-un vector ordoanat este E) timp lagaritmia, deasaele, in cora elementel mu se gareeste in vector, algoritmel importe succesiv lista in davoi pant coind poritia limbla va lu meu miai decat coa initiale => T(m) = T(n/2) +1

volam u=28

$$T(2^{RA}) = T(2^{R}\cdot 2)+1$$

: (1) = 1

(a) $= 1 + 1 + \dots + 1 = R + 1$ = R + 1 = R + D.

```
Sula legouiton sama (1,2 b) 6246
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3 base: A & Justines [] fa e 3mtreg

baz: se returnenta, emmer a cepar mar, morr.

la num ere din ersta

@ exceptie daca nu exista R m. in lista ?

paca gim (1) r la atunci.

(a) assembly exception, we sawt solvicioustems, 26 paca-

00000000 (an 5 "<= " 5 \$2 }

4s-a oraat un ansamble initializaten. de

dimons cume la (incepe de la indice 1) ?

elem - min 1- - 1 Ocupat 2-0 it (- iterator (v)

Posim (it)

Cât Timp valid (it) atunci

a c- ecoment (it)

Daca elem-min « a atuna.

adauga (ansa sacupatsk) Dacor aniby + - 1 a tunci

servica elem - min (- anz 13 Servica elem - min (- 1 Woma + or (it)

SRCat Timp

```
(-s + am Ti3
  Schontsu
  Suma L-S
SR Sulalgoutm
Functia addinga cansa sacupats & Jeste
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           3torge Cans & sacupat)
     SROaca
    compat + acmat +7
    an i acupat 3 e- a
     port 4 acupat
     Cat Timp [poor 123 2 1 v an [poor] r an [core123]ex
   anstpar 1237 - anx anstpar 1237 - anx
     PCOFE (- [ poore (2]
SR Cat Timp
 SR Functia
```

Pentru i=1, & executa

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Functia 3tonge (an, R, ocupat) este
    3 prie: an este un ansamela de la elem.
          ta e Introy
           Occupant & Intrag
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             se éleimina rabaraina
      an ciz-ami achot 1
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Pritatelean
      क्किन्य ८-किन्द्र र
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              bosed - bosed +1
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elimina
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              an [ room ] ma
               Detail - Loss
               Poopa C- poop ? 2
               possed surport v am showing in 2 possed 201
                   १ फिल्ब्स -1
```

Alte Runctiü utilizate:

dim (v) -> retermentat de monsiumea eistei v itorator (v) -> oracora itorator pt. eista v element (it) -> ratermentat elementer de la it, daca itoratorel este valid

below step hereas in citage of a spect c. (+1) rest comes hower of the construct of the construction of t

Tunctio adauga are a compercifate O(eng tr)
(adaugarous intr-un ansamblu-) are defeu O(h),

-A = (2003) (2)

Functia 3 terrale orientata complexitate O (Pagik)
1 tot aperatie de Carar pe amsamble)

in scholgwatem se parcung toate cale n

elomente si se adauga ladauga + storg din ansamblu

in scholgwatem se parcung toate cale n