LAB - 3 FUNCȚII CA VALORI de ordinul întăi Bot #: -> valori ale unos rescialile -> sunt numile -> argumente pt. alt fundii -> intoanne de a functie membri ai una shu duri CURRY I UNCORRY Functile pot f: OUNCURRIED => primerte Johi povametri (define (plus  $\times y$ ) (+  $\times y$ )) primize 2 poram, loti odata @ curried => primule param. pe raind (define (plus x) (x (y) (+ x y))) I primuse un param (x) ji imbarie o functie con primite un param. (y) param sent pasati pe raind VED DEMO TRANSFORMERE [curry - , uncurry] (( 2) 3) = ((c - x +) 2 3)

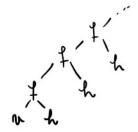
forma would · mora fundic, unuvoied o param. pe rand · param toti odata

#### FUNCTIONALE

> Functionalà = o functie care primerte ca parametru l'intoance a functie

- · filter ->me: o lista
- lbleg .
- · fddr

## FOLDL (fld lift)



-> folds the list up from lift

Sintaxa

[fold of w L, Lz...]

· f ust o fundie ou param 1 = (car L)

poram 2 = (car Lz) ... param m = acc (initial = v)

-> / X1 X2 -- acc -> ...

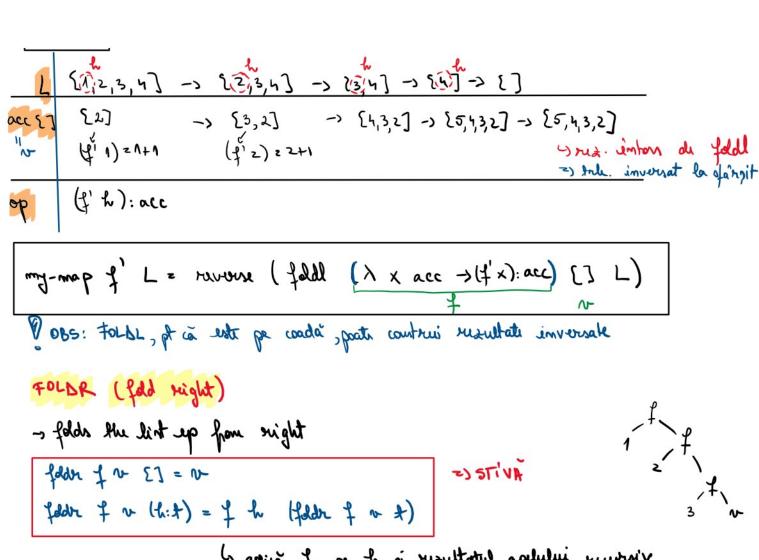
· O functie my-map come primere 2 param } L = 0 listà

Jundie core primere un param si il aduna cu 1

#### Executio:

Great intorn de folds => Inh. inversat la spargit

(f' h): acc



L's aprice of pe h ni susultatul apulului mursiv

L's to fundie similara cu ua primila de fall

L's \( \lambda\_1 \rangle\_3, \lambda\_1 -> \lambda\_2 \rangle\_1 \rangle\_1 -> \lambda\_2 \rangle\_1 -> \lambda\_2

(3' h). acc

og.

my-map f' L = folder (x acc > 1f'x): acc) [] L

### EXERCITI

(1,2,3,2,4) => { 1,2,3,4]

fold f ~ L

f: (x x ace > if x im ace then acc else x:ace)

w: []

(- storoumi skil a the libbt is notoni ....) [] [] (....) [] L)

2 rm-dup-right => STIVA -> foldr · similar ou fold, door ca rux. nu mai est inversat

3 sworlay -> feld

(e the facul?)

Depunem 1 poste i (img. initialà) => 0 mouà imagine 1+i

Depunem 2 poste (1+i)

-> 0 mouà imagine (2+(1+i))

i [1,2,3] exultima ing. na f. dearupra

OBS: overlay ) param 1 = img 1 = 2 mus imagine, in care

param 2 = img 2 img 1 ent post img 2

· (e vrem? 2) Si apläm fold au param. correcti

FORMA FOLDL: ] god of or L => Cime sunt of in 1?

Linitial simg (....)

W: simg. initials

# Exemfil

f: (1 x acc > overlag x acc) (2) fold overlag initial images

initial 2 b

OBS: Când aum  $\lambda \times y \rightarrow f \times y$ , putem socie direct f

(a fre facut?

①-punem 3 peste i ≥> 0 nouă imagine 3+i ② punem 2 pest (3+i) >> — n — 2+ (3+i)

[1,2,3] i 2) prima imagine na fi deasugra

Ce vum? => så apelam foldt en param corudi

[FORMA FOLDR]: foldr of the L => Cine sunt of pi vo?

initial

initial

initial

initial

ing

[1,2,3] -> [2,3] -> [3] -> [] on hace ← on 3; ← i

7: (1 x acc -> owlay x acc) to ovolay

2) folder avoiley initial images

$$(4,2,3)$$
,  $(3,2,1)$ ,  $(4,5,4)$ ,  $(4,8,5)$ )

xintem sources gam

G wen ?

Dos aplicam fundia 'ovorlay- pe ficare livie es map

D fundia 'ovolay-s' est unusury (primețe z param odotă); noi wum să primeasia un ringur param (livia wuntă/eista curentă) => faram curry => (uncurry-> curry ovolay->) empty-image)

Vezi demoz. rkt

\$ 065 => coind wrom a porom chi uni fundii sa fie elem. dintr-o listà => apply

1, 8 2) frantyle