function declaration

function name Of Function (\$1,\$1,\$5...) {

3

function empression

-> why do we reed :+ 2,2. how to identify if a written function or expression? ?? > if the first valid word is not function in the statement then it is func expression. # why in JS we consider fence as first class citizar. -> you can store a fine"

-> pass fine" as an argument

-> return a fine from a fine \(\)

JOIN THE DARKSIDE

|d x = (0+2)

In 18 How any diff apart from Syntago blew func declaration & expression 24

Ly The scoping mechanism is diff:

types of func' expression

So named func' expression

So anonymous femc' expression

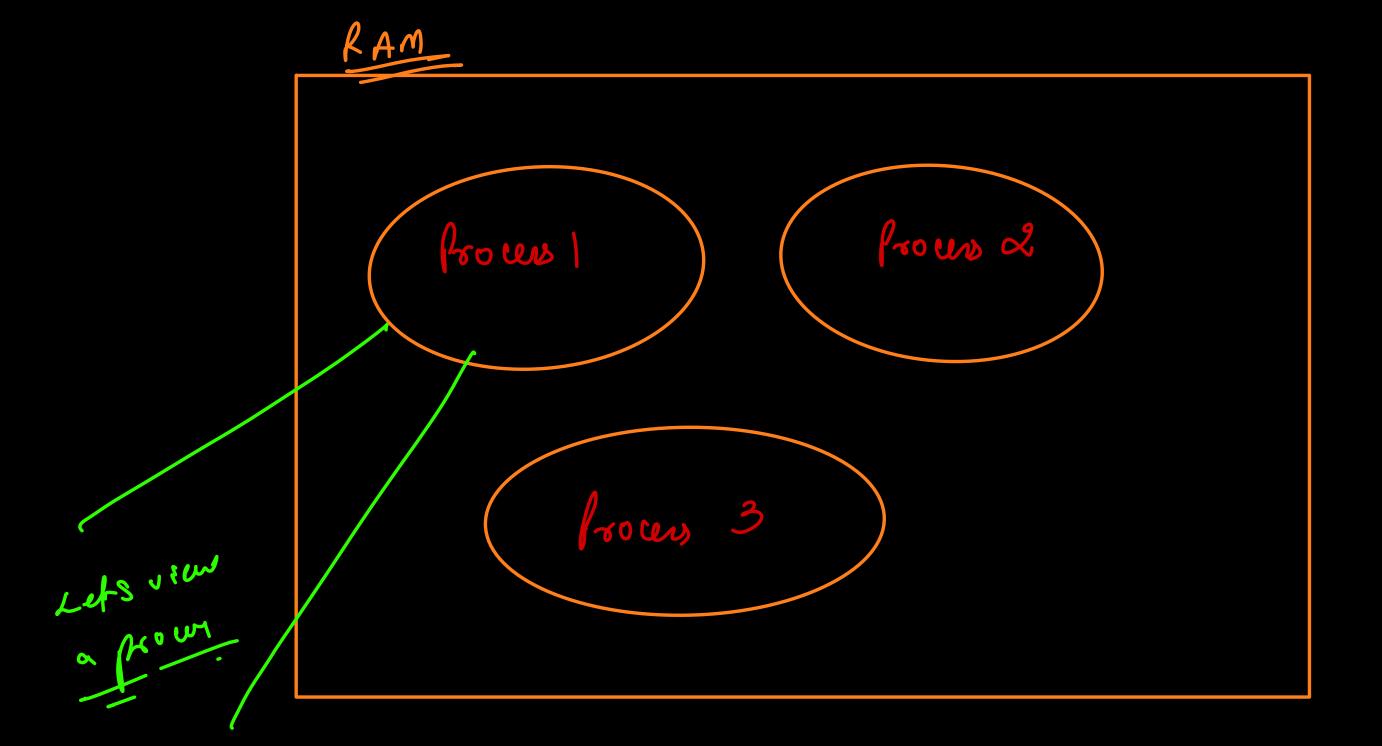
Solif E (immediately invoked femetten expression)

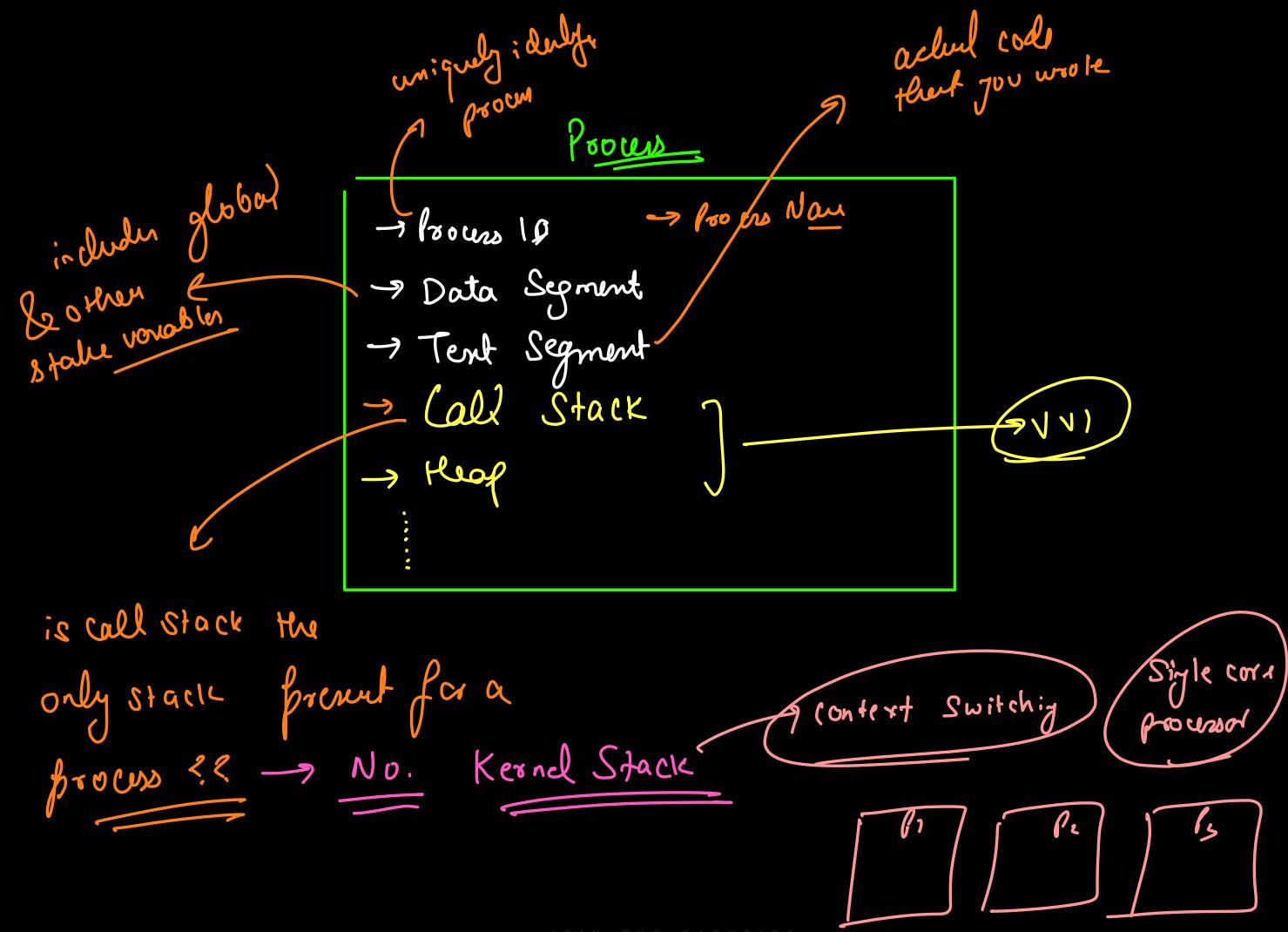
why named func is imp?.? 6 xbx ions ob. trau me Note > uoig (1) Debugging can point the order in while fenc? is called. 2) Receive 2 (3) Readability

Architeclan Memory say the fil (Samed in HDD or SSD) 2 Run the file file gets executed in the RAM.

(ode in a stope is enecution called Process

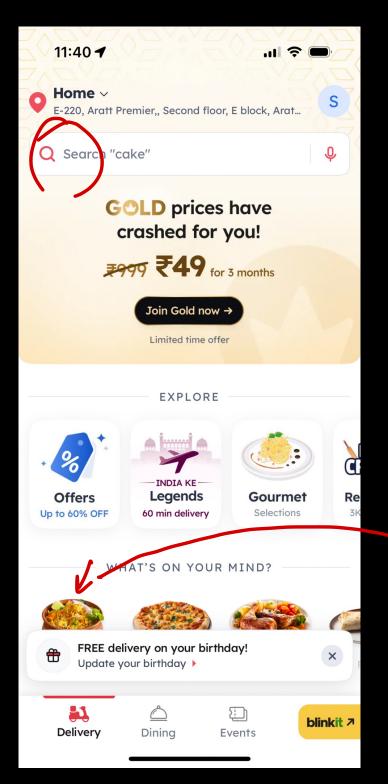
test.js

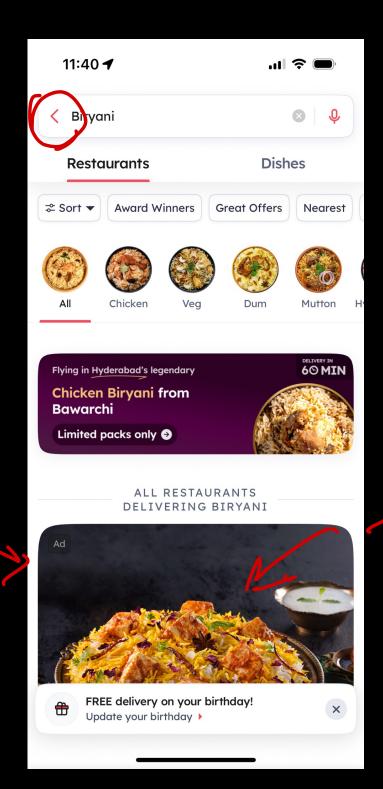


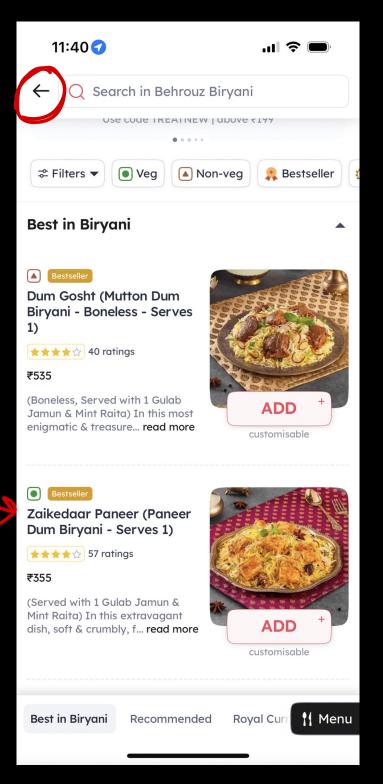


JOIN THE DARKSIDE

Los data structure and store a stack ?? what the hell is datainsert > punh remove - pop First In last Out -> insertion is done from top from the offen end > only the topmost don't is accessible In one removal, only the hopmost is semously Cosea







Call Stack

-> In memory of a process, we have a data structure Call Stack, Whenever Be wherever une call a function, that femalion is bushed into the Call Stack when we return from a feme or if feme ends itself then un fop the fenc' from call stack. Phu funct at the top of tall stack is the current enerating one.

Discrite

Recursion

it is not just a C.S. concept

maths

it is a math concept.

A child couldn't sleep, so her mother told a story about a little frog, who couldn't sleep, so the frog's mother told a story about a little bear, who couldn't sleep, so bear's mother told a story about a little weasel ...who fell asleep. ...and the little bear fell asleep; ...and the little frog fell asleep; ...and the child fell asleep. (See: story.cpp)

-> In Recursion a function calls itself. Rewosi'u fue" function f(...)f(...)

$$\begin{aligned}
&\text{factorial} & \rightarrow & n = n \times (n-1) \times (n-2) \times (n-3) & \cdots \times 1 \\
&\text{Si} = & 9 \times 9 \times 9 \times 1 & \Rightarrow 24 \\
&\text{Si} = & 3 \times 2 \times 1 & \Rightarrow 6 \\
&\text{Si} = & 5 \times 4 \times 3 \times 2 \times 1
\end{aligned}$$

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&\text{Si} = & 5 \times 4 \times 3 \times 2 \times 1 \\
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\end{aligned}$$

Say we have a function 'F' that takes a favoranter's and returns of

 $n \times F(n-1)$ fenc" colley

Base Case It is the smallest Sub problem for which cue already (cnow the ano-

Bus lass i) function f(n)if (n = = 0) return 1; 2) let result = n x f(n-1); 3) return result; Console.log (f(3)) a nonymous -> 6 first call f(3) &c print the value Scool Stack