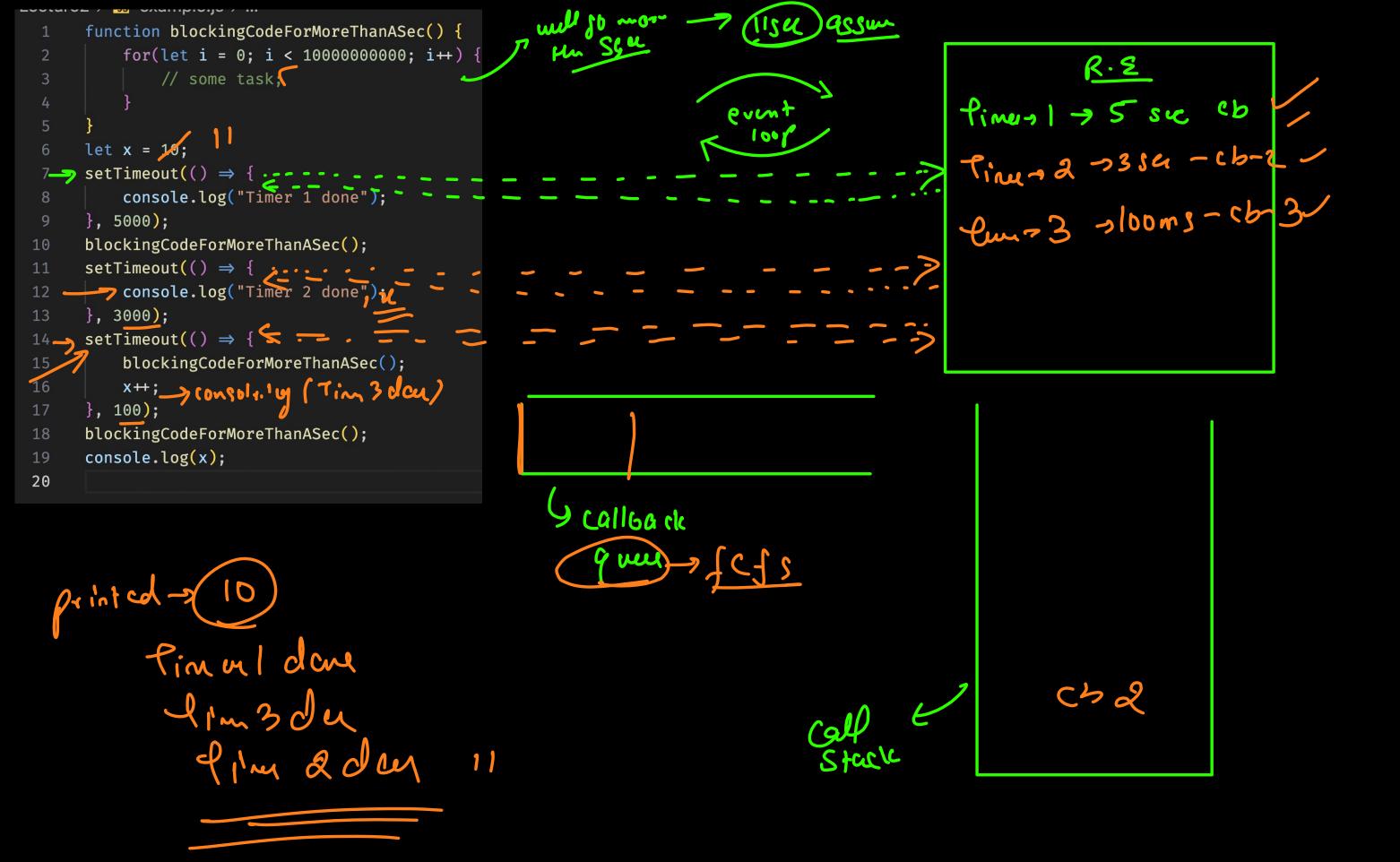
-> example to revise

-> what the issue with correct using Behaviour

-> Resolve issue -> Promises



every async roche une discursed is mainly based out
of Callbacks

But callbacus can he a bit froblematic.

Disadvantages Of Callback Based Codes

(all back hell) > Code readability issue.

(all back inside a call back inside a call back

(2) Inversion Of Control: you are geny contral of your code encution to some body else.

Stoipe CC Avenue, Razurpaj XML #Hpky Book My Show Sirty rate a layrnet Cuality a library SOK network Soft. deu, kin

Razorpay Cherlot (C ()=) 1 SDK of 8920xpay Callback based Razorlay Checkout Razospay Checkout (credentials, checkout (b) verifies Condetteals); eckcut (b();

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Promises

HISTH will be a long road byfixe we understand how Promises

Solve LoC.

-> What is 9 Promise in US??

1) It is a special JS object.

Lature of JS not the Runting).

romises are considered Readability enhancers as well. (it is slighty more readable than Cb)

Ly Just like cb, Promises can also be used wille Sync or async code: Promises are also Letture tasks. Considered flaceholders for

To understand Promises >

(2) how to create a Promise?

how to use a Promise?

#	Assume for some time, you don't reed to care about
	low fromise is created.
	Une la Consume a Promise ??
# P.	ropeuties of promise object: Toparet from there properties
	- Status - every promise object can have one of the 3 status: - Value - Value
	on full fill ment
	— on Rejection

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State of promise: Gossible State: Pending, Rejected, fulfelled Status is "Pending always. lending ~ fulfilled Rejected form penday you can go to fulfelled as segueted Status.

If one the promise is either fulfilled OR rejected State, the state cannot change again -> When well the status chaye & to what it cull chaye is programmed when promise is Coealed. Consumer of promise donot deady When & how State chayes. > A promise can be in foreway fundy state

a 150.

Value of a promise: > Promise Result L'orinially when Promise is created, the state is pendy le the value property is undefined. Ly when the state of a promise Changes to Pulfilled or rejected, then the value brokenty MIGHT-CHANGE. Value of a promise cannot chage without State charge- i.e. if promise fendy foreur, volund be un object facuer.

If the value of a promise has chayed only, can it chaye again?? No:

On ful fullment: [f1, f2, f3] Is it holds all the funct which we want to execute once promise state goes from PENDING to FULFILLED. It has nothy to do mely rejetion state. 5 Who writes these femin & regesters them in the array? Sthe consumer of the promise writes the methods Se manually regester /shore them in this groway.

He array remains emply until or unless you rejester / Shore the first fem c?. That means, state of state chaye does not control, when the array is emply-When the func's shored in this array well be executed is controlled by state chape. How to régister fenc???

Someture.

on Rejected: > [fifz,f3] He state chose we tage is le Noin G -> Rejected.

Henote > all the funct in the onfulfelement & on Lyelled ancy.

takes one & only one argument duy their enecution.

Viz, the value property of the promise object.

It how to register functions in the onfulfilment & on fyeted arroy ?? -> On a promise object, me hour access to a . Then method. . then (success cb, failure cb) this a Mof o then (Success Cb) Becaus it takes fenction my fun (-) fine" as ang

assur (pr)= creal roomise ()
stalis > pade
value \ value \ (nfulfilm:[f1,f3,f4]
object nulliple Itim me can call Promise other on a Bromise onlynd (f3/f5) Object. pr. then (f1, f2) -> the moment we cam - then pr. Hren (+3) on a promise, the first cb is Stored in the onfulfillment array & sword is stored pro Hen (fr, fs) in the on Rejected array Rafekens cuelle . then, not execution of Only registration thuse feme

It let's take a code enample to see, and validate
that other is not responsible for enecution.

```
> pr = createPromiseWithValueIsChangingWithStateChange()
 pr.then(() => {console.log("success")}, () => {console.log("failure")});
         this code donot crucules the callback, only rejective then.

Execution is not in central of consumer.
```

(Por if other is a femc1, what is the return value of

-> . Then actually returns a board new promiser object again.

Promise (); promiu 2 = pr. then (f1, f2) this line diff them pro relen on More bround,

ryistration of Pr = create Promise ()

fifth on the Promise selwe in Cothen (fi, fz)

then (fi, fz)

then (fs, fo)

the provider (fs, fo)

is applying ryistration of fift on the promise rely in pow lies.

```
// the below two codes are doing the same thing
// Code 1
                       >> pr -v + fulfulu - [fi]
pr = createPromise();
                        ~ pr ~ on fullfu [fz]
p1 = pr.then(f1, f2);
p2 = p1.then(f2, f3);
p3 = p2.then(f4, f5);
                           Br - on fully [fu]
// Code 2
pr = createPromise();
.then(f1, f2)
.then(f2, f3)
.then(f3, f4)
```

and about two code are

diff from this below

(ocle.

```
pr = createPromise();
pr.then(f1, f2);
pr.then(f2, f3);
pr.then(f4, f5);
```

pr. then (f1, f2)

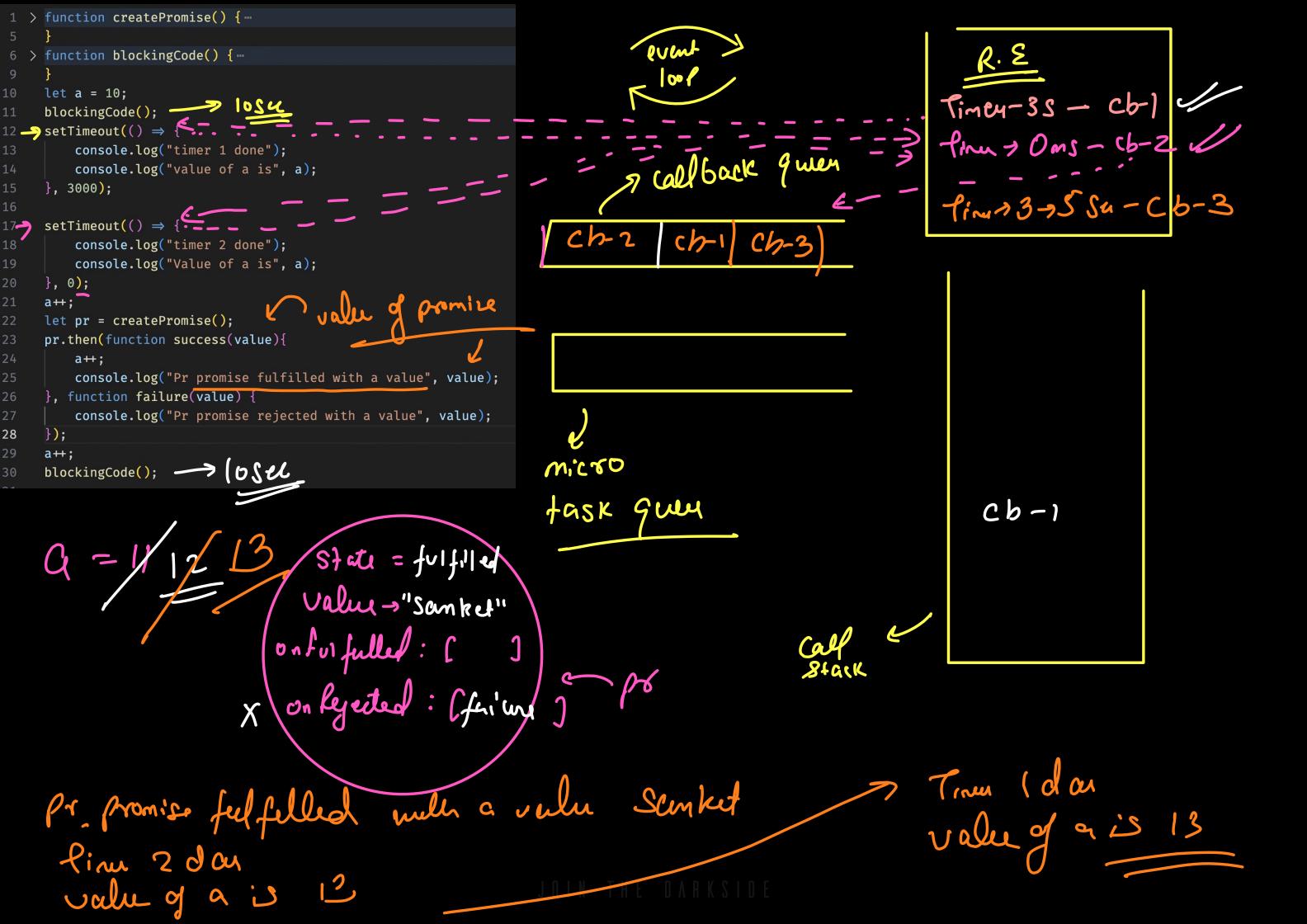
(1) -> f1 is negistered in onfulfell ment of pr 2) f2 -> is negistered in on Regarded of pr

3) Hus line setters a board new fromite obj independent of for

(4) whenever for fz well be executed then value property of pro is passed as an

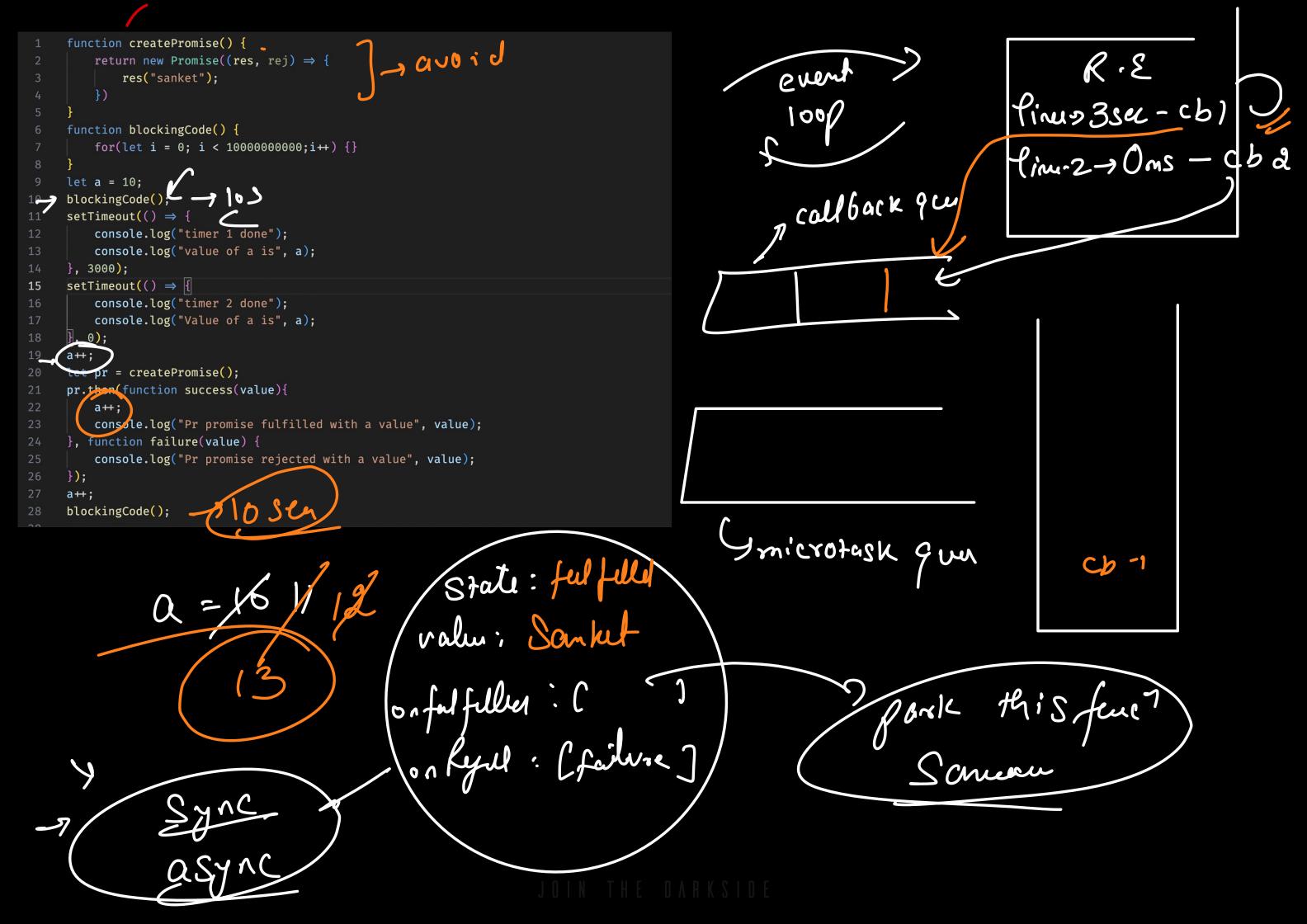
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H how enecution of promise happens. -> with cb, an cb coming from R.E. used to wait in
the callback queer. -> Apaul form collback queur, cue laur a microtask intende create promier nethod create a promise Object which which this create promier nethod create a promise Object which well value this create promise pendy > fulfilled stall - well value after 5 see goes from pendy > fulfilled stall - well value of going from sundefined > "Sanket"



1) the moment Ex vice-a-ver	Promise State	gow h	elfellel	janore arlyt
2) whaten aus	the fenc?	ed in the N	11 (ROTAS	K Praeu.
(3) Event 100p Olivede 6 tu	is sticks MTQ	in a Sitivation of CBCI	it uses	it has b

Create from: se -> relun us a from: se which almost immediately gets resolved perdy -> feel felled web value sculet



Pointy Of MTO >> Pointy of CBquy

Joop Event 100p

> Man threal -> call Stark

/ if comply

Microfask guen

if empty

Callback gruen

-> why promise behave like R.E.
Remember 10 (??