Yesim

ARIDAL

iscret

Elone

Singular 4

Sineglancinhaus

Mrefzg vi serangan Sheille Feui te powuion oralindol süretli med samuel Sandler om den 4 Gescue Saronga The Departen tormagt digole ole sohvallerdin Genean a bad s elle Bir sinuals trin Ingebont besaplawwalitoplnir sonte peracta mengel denit, Cuat s al wees Desarmenn hesapla m a sinualleure resial S*c*i Periyodit\_ Pepolis Cloy Schnell be disini belirten wieder *tek*er wolto malcon

T peopot (sinuali tsa del telerar olible pour ) f) – Grekes) (Lsa deti tolerar atore sensi)

sure we un

ylt)

Zalau Stas,

у (л

- Bizh philut hauatic kullangtziner bathing Shala sreta zaradi smucillado. Tralashe is lera ola besonde bir and shal but not zwandaning surekli zarrent srcellonte islemente intansn. o rieden onay ramal sinualle bullerrak rowndayung Bilgisayar sis. sose the nakilay areat sah hale gotip altre

1 Dis ormekilme analiklerous has

0125ion

(la)

estan con

(1/2)

Ditah

yim

la

kim

xin]

-u

3-2

1

2

7 4

Temal sinurilor

sing

i

kud(+)

*Xi*n]

Birhu danas

Birm basamak sihuol Coden serra & degenus alus)

Aunle parrando

binha bomuarrak

man

ultate}

BL(+)

u*l*az).

**1**

**2**

(3M(+)

i chummande

معا م

،داده

*¥ ak*iache

istan go randelchin ton

dessini i

*O*nun

X(*t*) su*l*t) *\* 1*2-):?

x(2-4)

x(-+) =(wit)

x(ut) te marinal

2 ekle

ult)

xldor)

x (at)

3

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sankell snyal & the posterilnic

x(the

corp

drekanini ile x(24) 1st

[uja

y F2A] =? y[

nos?

. -

1 2

3

4

5

6

x

x

- 2m]

elestahi alge

tan altilan

o 12 ius 67 f.

1

2

*8(at*)

Xin]

The shuals wir un

aralileu

orneklere arricchaytiniz

*N*

7 Nb - i

'

£

15.

2

4

to

al 23.4 s 6 a 8 9 to tu 12

Sana

KCA)

too (70*)*

*2*\*(7+2) X

*.*

y e leerl*i* \* / 2.4*.)*: 750 ks

(20+2 ) \*

x(ut)

on cubuleni

2

H

7.

tople

Valicidad

Ülin

y (22] + y [at] 2

-) ane normal

at able

ginti)

*"Тәls*

-]-{-10

9 [2n] tglanti)

• ]

-2

- !

?

*x(*+)

Hi*l*t) = X(t) We (t)

yg (t) = X(t) - u*lt*)

Toplesam

X (thau (4)

yild) iain

)

act)

x. ()

US

-

AE

aikanrsan

X (-)-ula)

Yr(t) lain

and

x

(+)

Sistentes e Sinelli zamand ve insanly Psannarle

Siny (odeninosi x(+) -s sister

-1 464)

sürekli zarmant

xlna a

sistem imun

] Aunty aroma,

Parcu

ve

Bedeutz

Sistenin

arkası

old)

o cal

piese

boghurt

belleksiz

belleksiz

y(t) = 2

xht) + 4

Lelleall

4*(+)* =

2

x (t-1) of la

birfacelu

Rinne

Mechanel

i

dejelerse

Mzuiwel lrranty Bir si carmin berhasilat at Danduled curtasi kenin o modeseldin Gelecela telah dyerlerine bagliysa

yule al dente 1) white

Ali dapat

andali rus geanasite.bs nadanted topildin.

beglimas

Belleanz allen kann derful

moucheron *fe*letice

Gelocat

culegere commit

Diputand white Darasal sterowan Sister

ir sistemin dagnvat olrass vaina

Toplansallit l had leinal Hangrelik ) Sellamal.

40 tarifelole 4) "Тог '&artseglue

x sistern

ax-T sistem

ich

xette -

444

*x* (x1+k)

Si*sh*en

3

& 140\*42)

y = k2 desnesen dofil

xTy

Y=2

lente

x= Sita

Sims priemon

?

x= 3 lain

in de to almoli

Ampth 102 10s chuter en Wyllanadi

atlamakeling

znot

shiraman

charel

**น 44 *(7 stuqง"*** 13 #15 toplansat daar

به ده بن حمية

ایده ام و

1.

y =

Ix-1377

doprised

and natura

the home dama de diland

geurers x(+)

Degrera ve kamene,

sistem 4t)

Degricineinn Siskrite

x a kadar koudgingo og de o kadar kommer se

defisineyen

xct-o) - [Sistem

– 46 –ox)

3 x

G

cilit

D)

-

...

1.

де

з

ор Anon *eo*.eec.

*Coro*

->

33 from

Zarrarla

doprorona

lll

5

Orang wanita | ecralos Quie, it with, Suksesta. MD2D)

then dogrusa! harm tonska depismenting Standemerker danie, Kanserli. Sistematic

belirli aralinta jiniso belieti eronate, 1 . xt1 - sista (4) bir cikizi olen pirista non ligplairst

Magsimulash qutungo sa fanla itsada la

kada olan litenlandic Geri Beslerel Sistem

ylt = X(+) + ((H ) mm

get)' gi hesaplarak icum alt) kendisinde fico baske lar deyee

sluta dunynorss

y(t) = 2

x ) (and)

SEL

N*E*

Sisakanta at anindal to these peamistet dyante beple nedseldir yalli jasur ne liner ( dosana) elogit

sistemin cikisi e anti pinise besti dont bel*eélo Chipv*aa*la)* Ranala depilman

powin3 = 3 x3, ao

oyin] arkası Sisteina o anks deyerine balle nedenseldon

a li Igaude war. Slot bir dyer liver dag! iy[n] x[n] lim o cali degerice bept Bellewis (tapirason)

y (+)

e

*X Cob*ou

• glt)

y(t)

o cali degene gelecetteki a

hapt "

dail, Belletti Nederrel den!

Kararsiz

yet) = e. It u (tt)

Bellulell pede sel da Cocarla *S*

*C* Komarom.)

Del 2\*vel-epi sode- *(*D2D) Dagnusal zamanla Dejisneya .

In Toplansallik

1) tomapulit Konvúussyon ile potentir.

mi*t)*

Kines darka

pinsine

olan

tap bisikan

bilinmesinin

her hangibim

pins

sinualine

DZD bir sistemai binh dunto elan tepeliri baal mannias regler.

h[n]

Dopmsal zamanla daylarreman bin Stuterin hirm cawah mendal! Sibidin, Auni sisteme gadale ugalocat aitę n u

durha x[n] diegend

[۶۴۸

ا

x[n] -

und=?

T

2

*3*

уга1 = x глу жhro7

hin-k]

hind

htt7 hn-k] -

urna in dedin!

out hapsine male

Art Am

An

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att

hra-le]

у f]

|

1

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lan

ntina

Binum

dúrsa cevabo (Xina) ola sistema hint le were appel camera ? L Sistonda pitate your tim] le bisita dito willige buty re sun?

kind U hin]

--

Zado*l* 2 ]

hlank]

xrom]

1

were

o

2

--3- at-to-- nas not an nal na

ner 2-2

nonh den borstualnt

1 4

4

1

1

Бл

-да ? :)

Dogousal zanale dyilmenen bir x Suhani wael yn] =?

xra]

*i*n

hto-te]

xfa2

о

т

*7.*

*3*

*5*

" h-3

--Е-4 at -

n- п-

2 п

não da başlar

да -

[3,

Е. {n-k1

an] graffan art

!».

Topton

sembaha

(.. 5.

Го + 7 .. 4 [44. 3. *3 (* «?) .....

-

Pl]- . По-1").-

4 s. Га»

Р*{n}*

- 5.8 [nes]

hif[nath]

P, 2

**Г**

Hepsina toplanas

*-*-4

-1

-1

-1

да на 14

you

Birim darta cerabe hfm? '*or*, 24 | 44ew, кг.) pirinime skraut wer?

хи]

цо-1

x In]

1+1

от 24

ntlzo ton nool den

эс:{ $ (.*. .*

-

5

1

2

3 ч

S

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. .

x. (+) sinuall wentmiş, Bruna piez y(t) = [ xft] + x(++) J. ult)

- De

0

1

*2*

Bununla

alt ya

Garpartan

Toplarsan

484)

*X(-4)*

!

2

- 1

1

2

sexy

0

1

*2*

*3*

x17) -

sistem

->$it)

ult)

y*lt)*

| Sistone

git-l)

Zanato dopisin.

ulte)

yit 2) sorron zoet une

I sisten

7

D

*2*

*1*

2

3

la a

s

nal] + 2

& [n-3)

sinualdad

fragatal

airliz

google chrome

Sn-l]

2. grana]

2. 5 ro]

Slo]

-2

-*1*

0

1

2

Toplom

-

L

u

h

y [n] = 2 x TnJt xo [n 1]- 2.xn-3] a x. fnou] Birin, basurat hatine Bir student virisine birkan banratka

cilası ne olur derek

slaual

verildiginale

xfo] =u Гng iѕе

a In] =?

bran basarak

w*l*ff = (t)

Sireto

zonada

bulu

auntlasturi

".. (4)

x*&*#')

- 2. y

hwng)

Birkin batarrat

shall

axlt-ul

auntless

la

x (4

x(JA-T) =? X (hat)r?

= '2

*2*

xl-t)

i Gaul

YBH

dice so(at) xolat).

doare normal are the huttl)

In the

3

-]\*2-

1

1

uge 6

}

de rutal tarrale

defirmaya

bir sunt.

y ln

(nahla riaľn ut. 1, x {n d[n] = f[n] +.& {n-1] + 8 in-2] .

Gincine fin) schudly wealise niko ne dur?

GINT = x 10) = 10

fta] = vina

S (n]

Гn-47)

Sim-2]

Toplam

i

2

]

0

1

1

]

=>

2

Buna

se gla]

atlamat

z ixka]

xinta]

Poplant

1

]

21 21

-

- - ]'? - o

lj

Gamite

-

Birl alana diren nallen saanuar Cor & feraet sinuale eakale an

X(t)

T2014 an arme. Ileno carattlanuly

aunga

anus.

**6 เk**

*i*

2

4

D14

012

al

-3

2

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T. 6

7

&

9 15

11 in 13 lu15

**3**

xin)

**?**

**2**

**2**

Birinn basamata sing full easiasten

sade a

f

12

**TE**

1 2 3

4

5

6

7

-21urn-o]

2,utnos]

uina]

und

**2**

**-**

wha] - ulma]] + 2,5 mm I) - 2 min 6D

uro] th[nal]- roulab]

IN

*x67-1*).ull-t)

x(26) tur

ullati

toldal)

ullot)

cil*t*l

carparu an

kla

x [2 - Je?

dege wat

mooi o'n

2.-

:7-052 *(deki defort* 2)

-

-

- 9

-2

-11

na hitro bus 2

1

-2 2otala lidati dyan ad)

x

{2-9/2]

ar jisin inahin 24 Zolan kaki dagen a) nas rank mab ich 2-6 as 2-3 m) at (deki dyan ..)

0

1

\

&

Moi

!!

12

9

hour

notian 2-4

So

Aasiah and alone ad decidrer )

Xi In] =2. u [n+ 27 +. S [note]-u [ton 3-sinni] Xalnja 2 xx [ 2-2.]

yfri] = x [n] + X. In]

Ilmas]

ullan

agladi)

m

21ula-2]

**22**

*T*a*p*ionit

-

"Topless

toplanas

111

Park

L exim

L

ex, n]

DI

X2 in) = 21 X1 {2-20]

21 6*64*-2)

3. *$* 1.413

3. Sinal]

2, 464-8) | 11

w +

7.

1

FREKANS COVASI

() Binh

Diritu

Cevabli

Bir sistemin sinsine linha charlat Verrect eitiça ne duar?

Slim]

T3

Basarah

Cevable

Bir sistemiba piritine bir basarak verirsee cenabi ma own's

siln}-il sisten

Fretons

Cerchi

Frelius iuran bir si puternica siriring allusi ne ower?

Sibonell effulahale

**www.**

**www**

**.**

**www.**

xan) -> [siten syn) Xın) = ejaw Denda Hlejude jaw

H le ju ). entiem

le chummler

Frekan tahi

Bra sistemina orehons caughn balrak sarita tulisicam

saretli sinuallende laplore neute

sihuole de

bar barrandar.

luna sdur.

x*(*+

au&n] =

) XU la place

) EL -) YA

tešloplace

I

yin]

(au*t*on

*] >*

*7-2-1*

cons-> \*12]>-->

2 xro] - Auriez

hairmu „ица!

daarino

2

.

Aurk zamade her refron

s Cinteral)

Sla

denk

gelir

na W) = 0.21

*2 m*

-

)

et disusunan

x()

n*.*

(ntubefunde

hey)

2

Dsusunu

*H*ae) 2

2 psias

hinan

:

|

هام تا و اكلات

pid fa-27-352

di Sin]

0 12-)

. a. xin] + bigla

a ox[2]+b, y12]

\*\*\*\*

\*

11.12-

x

zno x(2)

[n-no]

uin]

xan]

*\*1*2=1)

noflj. urna?]+44).

urnal]

1m

'

*ted*

x lata)

un

colmiota

utava)

X!)*)*

17.

39

sin missuin]

de

forintot in 3

plomoucation de

177,1372]

w

polarsak

cilat ne dur?

*FEELA*NS *CEVABI* Frekans cavably Fre.kans icesen bis sinugulo sistemin tornina sonifun cevabiolur.

x(n) [sisilan ya) X(A) = euralny sbt say y (n) = n(A) \*\* (n) = n(k) X(n=le) yen) = +1 (hus), e una Hi Cejw) - 2 nick.) \* e flow

tera Hi Ceuw) = thig e swt Jitk. ejus Q(W) = dont thee jun)

X(n) =

5 d

e

ju

yen) =

xkih cewe jullim

x(n) = cos Cnwo) ise (D20) h(n) binh durta colabor ise;

X(n) = 2 ww. Į juwo yen) = 24 e juo jowat 4 (ejwo), e-Wwo

yen) =

jwol

-j Nus

Santal Shalle

Analog Sinualle

Dig Dealente Laplace Berklen

Cand (2)

Dalenten December

Cashou C

Sulu

615)

s?-1941

(sas). (F-2441)

Z DONUELEM Bir sistemin frekans Queban belliment lain kullanchen be danacúmdür.

Surelle sinusillade Caplace neue aun sinalde de a denúscuina odun

1 x Ino I dag 2 x [2] - ... - - gin]

2

bolag

Tess

2

'n deak. gelir,

S (in-pergreed) - 2 defa ar face

FUT LARAWA

nements

- 2 Dhûsüntur fe

turly romanos for aaron - X(2) = xin]. 2n Suvel 2 deusz a Sin] - & [nm] ramenovany 2.5 m

und er en

تب تم 3

ter Gin]

t

aix [n] buy in J ----- .v 12.304 60*1412*.]

x In-no] over mere 269,0x12)

x [-n] -x (zo') of the win] common convenabis xleia)

no xin ] van mensen mening -2.44(2) koriche e In Juste yin] \_ x 12]. y 12]

0,9-*1*

cosmQuin

e comments

SIM mourn

-

you mosak da olur positif bila antoninde

-alinlanti]

I

a{n-1)= 2!

-4 [-n-1)

--

I

u(n-132 leti

*T-*2*1*

nianiu (n) = a12

**ni**

12

anio?u [---] = $012

ا

ب

-نہ سے اس

o

clipe

duumbar

(n+l) ou la

l-arl)

4.947.-!

3.8 (nuz? = 318-2

25

art

a uone) = 2t

lark)

Q Tunnel

many

ni(t) in nar] = f (1)

ulna?]

Guess

2.5 in ) + 3. Mim-] =

2+3.25!

uin] = ulna] icliten stelene sale at the

caprole nam

x [n-no] = 2 x (2) buradan 2?. I slur.

e

sin a wh] =?

lcanu. deret normal camp

por

x En-na) = 270o xiz]

xlanno] = an

xiz]

(1.) o ( a , suba ohur, ope 2. 5 (m2\*u [n] \* 27 urn]

Jadura I=

1

den

t

sur

*(*299

1-

22

See ym= 660+2)413 + 5.u 7-13

67 wind +214.1n] at si ulnar]

La

+

2,

TERS 2 Donaruma & KISMI CESTRIERE ASMA YONTEM

Paun deocall a Paudade so zagouleur,

2 #1

*cer*>

\*(2)

6-921 1- 2,521 4 22

tas a disurums

).(2011)

Tile

japılacak

pandag

Gopalune our)

1-25andan

X(2) an

Gagal

LOIS*I*

a-0162"). (10.2.2-1)

\*12.)

*(*1-0119-1 (1-2,2-1

*(1*-2.4 -)

(1-01512-1)

X09). A*ic*lo 212") + 8.61-019-20).

(1-01512-4) *6:4*+27:-) *p*lan 21421 D OLS,

2 6 km

6- 92\*\* (1-115.2-"). C1=2.706")

Arne B=6 -2A-Ohooo) wir

*AG*

IN

Crestany \* (12-

LI.

Liu Cor) aufndt 2, (2

'RN

X (2) -

1. 4-2 2 + I am

A . 1-221 + f22

ters z dawning?

(1-4 \*\*)(1-2-0) x[n] = 2.8 [n] +3, 2017) iu in] - (012), win]

NOTE

Paun derecedit paudadan bir veya esitse; pay paudaga bal

-

B2+C

► 20). Cohen

e pare

sorg dsüstor

song dowiskan

22 +22+4 23+2+1

lt 2+3

222-1

B

hin) = (015)? win]

nu

22\*+ 227.41 *2+*2+1 *- 2*2+2+1 It

2+3 xinja Sla-s] r glad = lika] # xm]

ylng=? in ming daosanlento aue aupan Tetar 2 bucuro alone tow. alaus

colina

(tai Tes 2) Formito lunga I

fomiti Słnum] = 2mm hin] =615) uin] ise hiz]= I our &

our, xin] = f[mmg] ise x12] = z 3 our

1-05,7\*

leynd, 52

(z]= 482]. x[z]

-

C

alle Cale) = até

osall

G Coisam u En-e

eluri

[0.1 54 23, โก) = KT22 - 01 แTo] + 2.TA

4 2,

- 1 - *1* - 045.2

- 3

-

x(h3 = 3 [A- 1 STA-24 4 [A-1] ATA] = \* TA3 4 2 4 - 3 4 ! A-

(2) - 2 -3.34 น h(2) 5 4 4 2, 24 21 ()ะ X(2.) % 5(2) - (*2* 23 24 42” 3), ( 14 2 2 4 24)

- 24 42 -2- 32" 442" Bro3 5 2.0 TA] 44 8 (0-4) - ° L1-- [-34 5 9 TA - 3 ( TH -5]

So x(2)ะ ) 45-2.)

x (2) = 0

*4-5* 2. ชน*กัน?*

( 42 3-1

(+422) (1-2-1) *A ( 14* 251) + 4 ( 4 *- 21)*

(4-2-3). (142*2.\*)*

26 - *" !*

*14*2, 3

- (4) 21

*!) -*

*(+22 - 1*

ช่นๆ -

**น**

안아

**ใน 1**

**า**

- แTA3 - - (-2) แA)

GRAD

1-2

tes z dhunon

?

1-2 No ank

A-2

Vari

no that ulnar)

T DBAD x(n) = (5°+2), uln)

u(n) - 2 dcfu uma

x*(2*) = 59. u(n) + 2,0*6)*

x(2) IT + 2 Bezd xanla 8(045)

xal= 2 bed x(x) = (A) & (n42) a demasina ?

Galistik

4. (t) t u inte) » a tu caut)

*h*ot

K(+) = +"-164 \*FC

Sürete*li*

simusela

foisa sıralamadan el aunk sînuale Gw*ire*

tal lama x(t)=64 dan lain xit) = 98 del.icim xH) = 108 *foll*icita x64) -

x[n]

a) xin] ani (1) wina?] =?

n

ie

uro-2]

*lat! 2!*

*X12)*, *1.*7*2*

Sender H(2) = 22-019

(245,4), (...own. e) Ters a durumu? bil xin] = {1,2,-1} laina gin] =?

a) x[n] = sim]+ 2 § [n 1] - Sina2] d) Frelons combi #(,Q) e..) Fark declented

gastroint 1+1 2+1

*71*- £2)

X(2)

X/2) = (1-2 2-1) + 1 - 4 22

(1-2 ) (1) A(1-12") + B + 22-1 (1-*7*252 (1-34 4-227+8=1442 (- f 4 ise a = - - - - - . (A

2 BE 1+2 = sherit

h

sound

In Bel ( Bo

**لم |**

. (-) ? win + 3 (ni); (4) uin] FOR*LI*ER ANÚ SMER RRS X(1) La uin) in prries al snazwinan ?

• x(2) go bull soxurda z yerine e vw your

X(n) = -diu Canal] =?

*Ca*n-]=

vas.

I-a2

Forriac Donusunted

• 8 [n] =1 o słn-m] = 2 (z do we aminou? ) a 278 (ww)

-JWA

olur.

ده منم به

) می 27 د

(د

care în] → 2 déucina

1

*2*012

اب ممتع ل 7 سلمان . (1)

DECANS LEUR\_\_

2

.1

as

hin] = {In] + bf {n-1} +3 {n-2] Fretons carabi ?

h(2) - 44 *61* 2-49.2.72

**11**

Jw

-2jw

=

*+*61

+

2,

Transferm)

*F*PT ( Fast Forrie

FFT

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Tess Barrios

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FFT

yat) = x16) - boft)

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Filtreler

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[-2, 2] arasinda y=x fark göre

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- M-alal dérüşúna?

buna benzenlos antracen n-2 olas iela 2-2 elite a bunu eklesele tüm bfadey de

G une acpralian u esitlich das

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Tn-2] =4.2

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**SON SA**

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**LI**

(2-1). (2+1)?

*(*24)

A (2+004+ (124*6) (*2-1) = 2*2:41*

I vekach

L

. AC2+12+(82+6) (2-1) = (2241) önce Aly o tepalin antiadha ) Allah (-B+C), (-2) = 2221 /

2*B-26*= 2B utlan 26

A(1+02= 3

A14=3

A(2-02+(2+0)*(*.): 7*24)*

*(* 221) 1 *32 ( 2*2+*/* A # 242. 62.

29/

Zover soll

xin] = u(t

unti] 4 nahulona]

z daurumu?

uin] = Prob. () pou (n+2] = 12

ami a ufumms] = tak!

- 5.27

Sen SRUD

o*r*

*+11*2) = (2+2).(2-3)

(2+0.27).*(*2.45), (2-014) 6.) Ters a dorusan hiklar. 6.) tadila isin h(t)= ? a) Pl= -0,25 P2 = Dian Piala

H2) = cua + C2.2 + (312

zopi zap zala

(2.42). (2-1) (ata). (2-07), (2-014)

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= -orrian

(-ur2541).(-09)\_5135 (2015) FORTIORT), (2015-014)

- (213), 6.2.0 comow

2+2), (Amor ) (1+015).(2-044T). camoru)

(235)

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L-01+ri Gelin

(6175+2).(8175-)

(6AT+BILF). (0175-014) (0177)

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= 23, 52100

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#*11*2) = .35.

2 35.6-oizs)" + hool = 129.14 h(i)= 96135 hlad=26.41

2 +23, 5742 +66,57, 2 0121 . 1.-0

2-014 23,5744(014)\*+66, 57., (2004)

fork

deldarni vanese

k soolotan.. paruhr.

Stretline Frekansi #57 2 of mux Tienstre for kr 344

Standort

tilk) og vent +1(2) He ju) i tenirafe i

Hillc) - binha darbe erabat l hlesw) - frekans cevabi

b + (2)? - Transfer forksitan - Eper tick) venimis x(6) istenirse stadart parle denkleni elde etmek feneke

Hela) = y) = -6(2) --> YOKI + ay Ike-] + y 14 m2 34... + x 16 7+ bx76-1).

→ (2) war's hik? Jastaa x1 2) resta xit] isteseady tes a dóiusuna? Say H(2) = 1+ 22m 32\* xre Jonse

**Uw**

gapandika

Redial

= (x(2). 2+ x(2) 3 x(2) 27-(4627,227 yea). 2-+402). 2747 912). Z =x[k-z] + xlk.] - 3xlkar] = [l-2) at y fl-1] talk and on a [kar]

-

Birim basamal

cesabi: X(t) = xls)

H(S) = YU)

-> Broma bavamate consubel : +464)

my p*h*one slomi

Nize

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Bir . wie binlen

sistemin bihan darbe cevabı hlkel ve pins icometi X[k] yukanda cantimis, Bare gone; darbe aus. gade edin,

Sist, anker elde edip

auch

Sin]

olsun,

*le*

17 *117*

olk] = 422. $7t+r] + 012. S (k) + 417, S*16-1]+.*117, filem237714; (4-33*44*131*8 17')-07-*09 [t-s] -14.864-6)

- 05. S[t-2] - us. f [t. of]

b)

Sisto

actisini

birim

bajanala abs.

gade edini

GRA, AR

Ti=0195 ms Traoiams

2

\*(+) = 5+3.4 C 201*4/*+v) 45"cas (12074/92) + ?C*MD* (20+173) ide a oneblane frelons en on taa olmalidir? 6. Fs = 20 litre ile arrotlenirse xłk] isaretchina ille wa lenhaal me olur?

ai) f o tos 4 canalblere *precaro ps*y Zymax

fs> 24

#35

Ls 2,5

b.) toro -) X(0) = 12.

tiel -. XU) - 13171

t2=2 - X(2)=rda Een yłn}=-015 xfn] +012 xrnal] +014 x Tnar] +010 & In-I] -oidy [n 1]-oirgine]

zamoli sistenin blok semaini cichic

-019

b) FIR IR TTR arasnoch now Yukondol risken film IRMIZ

. Bir sisterin doi cantando sonlu sauldy olda sele Stret derer! belvarorsy be tar sistemler FIR ( solu shu youth) gaming sahiptir. Elper dont you things sonsuz saucot syinden solle Srred dagen balnuorsa IIR (Tonsur dün yanadle) goang sahatit,

1. Gutandoli stane to content zamole silen, yong sal dylano bigt olopenden spredam poret store south are dyer bulano Hoche. the hoger gin] IIR yaping sahiptir.

yin] = x (nano) olon bir fishin (x[n] = e f icity a nd sistemim frekans head, in trofing att ledan) bulmane

y[n] = x [mano] = e Jos (none) (soon) jurna

le e

olarak elde e*d*ilir. sistem piricine Icarmaεık. Intel iuret uygula fpindo , sisken Gilefo to modit sittel issured ple frelons yatan qarpimindan oluşur. Bu yüzden?

*H* leverance-vilno

am

II

MIT

BRAS Bir slistenica Standort dark darkhand a(k) + 24(6-1) + ay (K-2) = x(k)+2x8€-1)-2x(K-2)

2x (16-3) ita i) y(+1)=-1, 9 (-2) = ut i gan piris isareal bînim basarak serasi durumunda yo), gu, 982) Agrelerini bulunua

b) H12) transfer fortes bouliner : ) Sistemi blole diggeremo slartike ifade edriza

---

y () at zy (k-1).43 (t2) = X(L) \* ex(km) – 3x {k=2) + Ex(4-1)

gld) = -2y (km 19 - 3y (-2) + x26) + 2x(-1) - 3xl km2) + 2x(6-3) So yo) = -2y60-1) - 3y (0-2) +xrolt 2xcom) - 38 C0-2) 42x60-3)

=y(-1) - Sy(-2) + xls) at 2x1-1) - 34.6-2)-42X(-3)

an

E 2 +3 tito-oto=6

kollanib

y1) = - Zog C-1) - By (2) (13 + 2x1.4-) – 3x (1~2.) + 2x*(*1-3) yu) = -2(a) - gyén!} + \*C12 + 2x.(0) -3x6-1)+2x6m2)

( x1) Islalab

-12

+1 +1 +2 -0t

h

k=licida

y(2) = -24(2-1) - gg (2-2) + x(2) + 2x(2-1)-3x(2-2) + 2x(2-7)

-24 (1-3ylda x(2) = 2x (1) Ixlo) arxa1

= 12-18 at 1 of 2-3tos-b

**L**

b) y(2.84 24 24. 99252 442) + 2x7"13x22 22 c

yea) [ 1+22\*43277] = x (2) [1+ 22\* \_ 322 +223] H(a) = 4(2) = 1th, 21-3,2-2 +2.2? a

1+2,21 43 122

*\**(16) y (6.) a 2 2 2 2 (2) 42x2 3x22 x 22

414)

X(a)

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Hear) -

2245 (243), (2 uld)

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tla) =

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+ cz.2.

Z-P2

Plava R2-4

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2. (-3)

= 2,645

(Les), H2) = že to

= Ž (3)*(o*ud" Biri dorbe cenaba no 212 BC =1) 8 (kcal) +012 (2) se pris

x] = -5 96) + SCkat)-S (K-2*)* +5*(6-*3) *ise* ai) Gilar Isaretint delen are profite olarak get lefnin bi) Gine Isaret - SC ice hill, held, 4(2) nedir?

*Slk)*

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(k-1)

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Gile yl]

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gin) = 2012 Sitha lizi (k.) in sce-2114 $ (k-1)=1, 28(6-4) +

and (6-5)

htuleht k(alton

Chlt)

en h(e) = 012 8(6) - oir Schal) +0128 (6-2) ise ?

..) *H*() ? 6.) tw) =

l the way a.) #1(21= 012.2 -015,2 torrent ba), H(qW! = 012-015i woiz. e-zju

ou, siriq isgreh

ule) = -088 (C) & olf Skat) & 8 (k =2) 4. Ora s (kos) - Bit Set-u) asgoslalu gibi ise askus ?

h[k]

*1*

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Yl67

113 2*11* 101111113

**-- -**

i LOUIS

Os

hck) = 015 8 (c) + Seland) of als SC kone) the tile ww) a? A( 2 ) - เจ เอ. 12 เร.วา Hleuw) oiranie motornih

Bro

Famer Isagana elf sellinde olan bir iεoreting ai) örneklene frekansı en az ne olmak bi) Sadece A genlikull bilesen ích xt) isometini aichie

UL*AH*

LULLILA (kla)

ofraxell Exiz

FS, 2 fman FS » 2114 28 Ltr

b1) Tatuambiente e sims

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xfk]

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pre;

sistemin binh darke cerchi nik] we pire leareti xfic] yukarida venlmisten thin ai) sistemin ailesini elde edip bilan darbe ahsinden gode edinia 6.) sistemin arkiç isareti birim baserat cinsinden ?

Callusi

url]

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177

147

112

*appeap*

a) Birim darke cevabin

112 8 [kat1] 4 012 S[6]+44 Słkar] 4 17 S That) = 0 17 5 lk - 3] tha & Ilah].2117816-1] -17 8 (2-6].01 St]

al15 Sie od] 6.) Binm balamale curally

S[6] = ulkja ulka] 112 S AL +1] = 1124[1] = lizult] 012 S [k] = ozulk +1] Druilki]

als Slike od ] = 0,15 h Pleat 34 1156 khoa] Y [6] = 112 4 [t +1] - well.] a lot welkulla, aulk-2 tiukentam Ini Phot] I lizwłkaa In Lk - 894

115 hele wa ] bir sistemin e dort set dekening

ylk) & Thing (k-1) + 3 (4-2) = xicklat hallolla 3x(6-2) 2X (LA) in

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yerleal ist in { regret billion backsamaale armasi dunmindo wycol, (1) 1966) dylent?

gekl= x(61+ ax cleat? It&k=2) 42x'((-1) aryllet) -3 (4-2)

Gol= xo txaT - Axtar () - 3yron) 31098x414 2400) - oxşary text6)=2903) - glu)

jez? = x(0) +Zx(1) - 8x68] +2x Cyty ng lets Page s*ub* transfer pair

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Hla). 4 ).

x(2)

da) + 22'y (2) +12-2 J (AZ) = x (2)+22-'x (2) ~32 -3 x(2) +222 (2) yonu) (12.1734+ 22-2) - Y62) (1-1-22 "123 #2.2)

A-423-

2012

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a) Bloka smyrsnu slank ijaarsin

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Bir istrefi

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xin] =28 [042] + 8 [nl] + S [m] +3 slaai]+s (n=29t

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X*(*2) = 22

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x(2) =

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QL- LTIC

QL\* 2010 eft e arrekure in

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-Tlf Hd [t] = tu

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+ + a[h=2] = x (M]

Sistem fonksimis (11(2)

7 Bin yinj - 2 Sisteritis dúrt tepus Phin] ) allow... basorate in comm])

a.) Eşitliga a donaçãma alaarab:

ya) - 2 294 12) +422522*)* = x(2) (1-3 2-1 + + + 2-2) 4 (2) = x (2)

payuce saudage de Sil

ute)

6.) xłni] = sing

\* (Z) -

Hra) is one thing to try the in) = Yes (64) (-4) (a)

A(2-4) + 3 (2-4)= 2

Yea) () (a) →

()=20

Tes 2 rularak y (2) = 2 (t) un] - (

t

uin]

Heal= Y(2)

. (2.) Xinjourna

X (2) = 2

---1

H68) = 4(a*)*

X2) Y(Q) (2) : X (2)

21

59€ 123, 124).13-4) 32 cuna-1).(-4,5

B =

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22

(2) = f. 2-2. y [n] = sind = { uin] =>. (4) luni + f (y) wins

spnde [ $ -2(4)\*+(+) Jum]

*2*

z doaç

noty (+)" u Tr] =u in 2 Bau I bams kauduring

ارمولہ

i z

ile cop damale

Fratans caschi enterrae allmate leren

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*F*FP7\_814)

\* 163

FFT (fas it Fourier Time) (Hole Fourine Doris ) Founter dónsi gapen bir bilge alpontaasidir. Fourier u dana hal yenilmasul seglar,

yen) - k. (A) him) yok) x 866) ohle)

Tas faune alma

( verse gial = x (N) \*.4 (A) hm] Fet *u c*e) stelaxe). alt)

Fit - programi (2. înu a fost - program () 7 Bu lu forlestromy kullanarak y In] = xin] \*hłn] O gin] \* xfn] kin] elde etmek

laika penerell tolygonbling a=fft - program (x[n]) = b= fift - Program China);

c=axby

de Pau -rföf of propertson (e); ซโค eluv0.-)

Feuner d*o*s, 54 54 4.) \* -- po

hesaplumproduk 34-? Hestagibir sinualin

fourter des 1. Xi - FD] =?

- 2*1 €* x[k] - E xcole e

hebir tindisi

harps frekonson Xa - FFT h

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OP20

x law) = 8 xwhe-jun

**IS**

Hotlab

*m*ileog mo*l*ite

vars:

*3*) \*

IFFT

- FAT

d = fff (b) m-s1 FFT

e = cxd

of="fift (e) Alcat gecire, filtre = Bir sihwalon sadece deiçûk frekanli bölges peces t Yulesch a " Beleli bir frekansion wit, raustat Pour L x2

Barid n

a istedigimiz frekans armpini gelirini ta n Band dundren & Belivali i Prelies oraspian dudurur

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Blok

DNAGRAMARI (2 DSNUSLIM)

*Sl*abs

X

X (2)

to

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to

312)

(xa) - 1 a)) - 2 4 (2) = 1 (2) (x(2)-3462). 2-= 3412) X(2) - 3462) = 34cm.)

X(2) - 31/2) = 31(2), z X(2) = 3472). *24 34/2)* x(2) *= Y(2)* { 12 +3]

#(2)=

4*(*2),

*X(*2*)*

32 463

$ (z+-) = 5 Content

2

+1

Fark Delllen

Aurig aarala skallene getali 2. doncs unassiant fork daakleriterand connected from brallenina, are dellented charetli Silmalede

fart descelent aunty shuglde pecantidir. Dig declent aunklasterirsale fort deatheul oluri sou Fark setlerine torsilie gelen blok diagramme ?

y [n] + 018 y Camiat air of Tanz). ang hindi - arata) 4 0 12 Final] at Deluxe (n. 2]

birha *seilem*es!

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goes x01) -->0—

17)—

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[(x(z) - 34.2)).21'442,462) ] 270469) — [xce), z'- 3464), 2" + 4 2.5 (2)] 2402)

X12)27-34421.4044 42 902*)* = 2.542.)

X (2) - 11/2) +4 29 (2) ary (2)

Xalzg+(a)+224 Cal. 424 (2)

x 60 ) = (a) (22-412+) #02) 42)

X2) 2 - 42*.43*

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Sandals

\*(?)-1762) = -12962) X(a)-941/2) = (12702)) .a

*X*(R) - 3462) = - 324412) XCA) = -IZLY (A) +31 (2)

X(7):

de...

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x[n] = uit

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) x (a) = ariarhia ) in (z) o lahatlator 2

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3.)

xcz)=

y (2) = x(2) th (2)

Direk ilişini care . . . y(2) = 2 +41 21 2?\_ 3, 203 +51 9th at haar y (n] =2. 8lm It 4i Slano] -f in -2] - J. [n-3] + 5. fln-u]thod [n-97 2

tes z dharuma (1-2-'). (1+2,2-4)

*A ( 1*42,2-1)+31(1-2)

of +2,2'

Ast zimizni \*13- 2,2-'aq! (1-2)

And Bro 2A

(14212-6)

1-2-1

*Hof* 2.*7ol*

foto + (*)* Van

tuingt (of). (-2)% win] ai) to as ses zo?

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*1*-2-1

1-7-1

uln-a] =12

ufa-x) = ( 2

1-2-1

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ulans]

.a)

x(n) = (547), ura) 2 tuisoning x(n) = = wind + z. 16(n)

+ *2*, I 125.201125 xinlas (hor] X(2) 7

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6.

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7.)

xi-6). « (n+2)

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a young

**2**

- (3+2)arise

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w .....,1A-136 = ?

20- Bal = 2

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