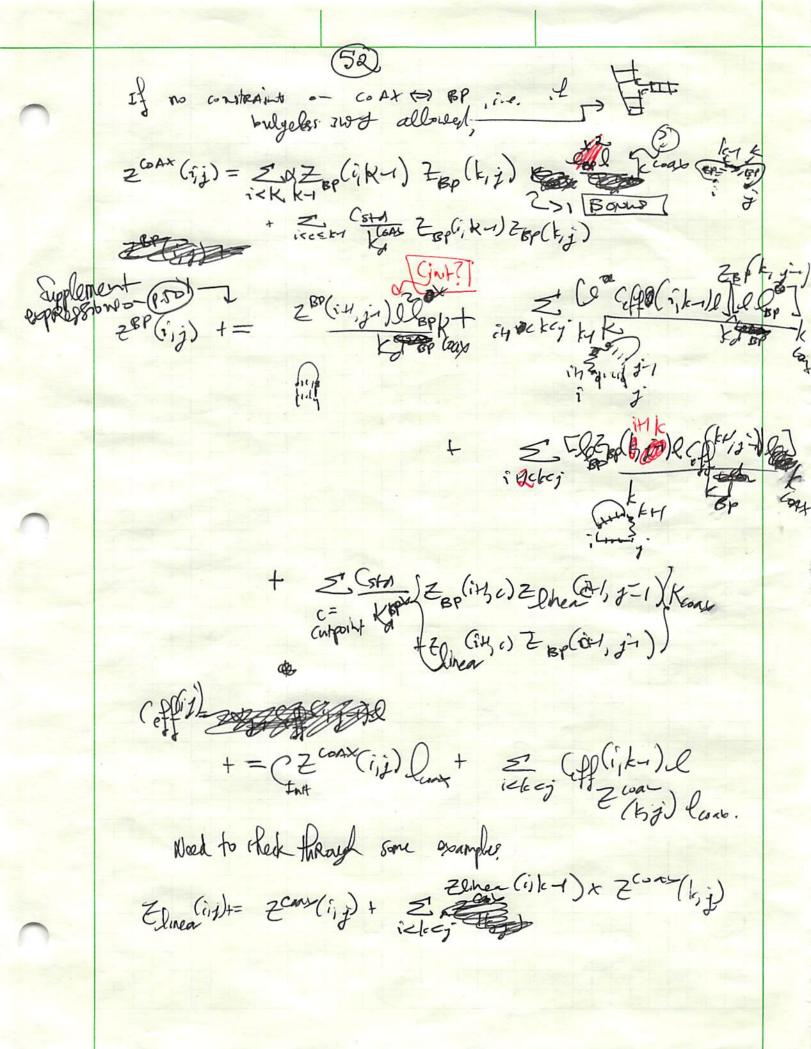
tack to p(44) simpler pecusion alother with motoper manifell tensor Zerij)=1,031 Coffin Com the State than the city c) Zerij-1) (off =(ij) = xziz (eff(ijix)) + = (eff 2 ff(sx) & p Zricij) Ozreli Zlinea (ij) = Vj. Zlinea (i,i-i) = Flore (1/2-) ZB1(52) + 250(i)2) CIMP & I in million mile 65 = a + b (# holing)? Z = CINT SOBP KBPX R = CSHI PERCENT weed to look my mecastill. refrière = lex/L) ler-led try or next page.

Further Revisiting of "simplified" recurrier leptopel Zer(i,j) = xxi, Cip(i+10,j1) et Opp + Z Sta Zinea Zinea Zinea) Coff = (13) = x/1 Coff(1/1)Q + CZ*(1)) Cop + SCoff (1/1)Q + CZ*(1)Q + Zarear (1)= vj.17/mea (1)j-1)+ 289(i)+ 2 20(i)t-1720(i) Zbea (i) i)=1 Ceff (1)=Ga+ 20 (1) = { Coff (i,in) & (i,in Direa Ciji-1) a (it it, ... i cutpoint) Z=Grit - GNIT LETX Z = (SHR) × l CENT = CINY DE CINY While Z = GINT (P) 1 = GINT (Wedy while to tall transit and

coasiel state [Rough] ZCOMP(i,j) = = = & & Zp(i, K-1)(kj) Kcoax Coff (i,j) += $Z^{coar}(i,j)$ leave + $Z_{coar}(i,k-1)$ $Z_{coar}(i,j)$ += $Z^{coar}(i,j)$ + $Z_{coar}(i,j)$ + Z_{coa Ticky 2 Cinerik-1) Z (5, 5)+= Lji Zelceff (iskn) lZp(ki white clearly on next



المالي على (NIMION (-5), 5-1 for now) Coff = Conft + Courter

Zhere 1 + Courter

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Cons & week Ceff = CENT ENTERED +

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(ENT + CEN Zlinear 1 (install p) (1+ Giller) CENTILEP + [Carrilled] love king Steed to calcular Eggs

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Return to motils.

Same Recursion won p-(3), but add whif ton to per 200:

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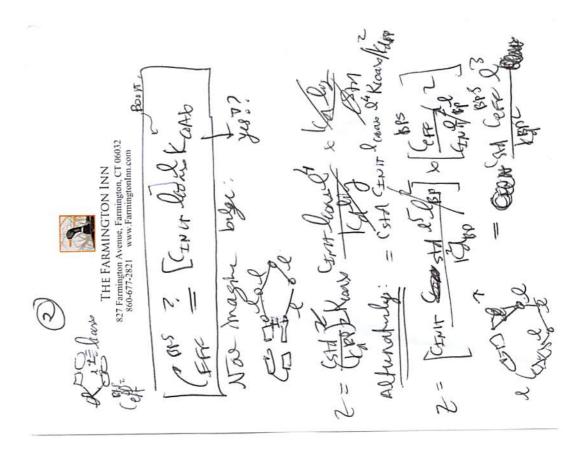
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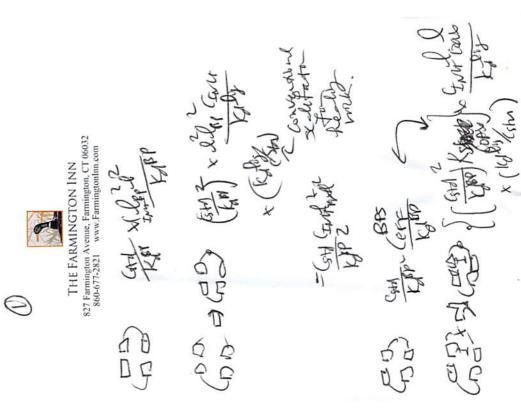
of coatt: $Z_{(i,i)}^{(i,i)} = Z_{(i,i)} \begin{bmatrix} C_{eff} C_{i,i} \\ C_{eff} C_{i,i} \end{bmatrix} + \begin{bmatrix} Z_{i} & Z_{i} & C_{i,i} \\ Z_{i,i} & Z_{i,i} \end{bmatrix} Z_{i,i} \begin{bmatrix} C_{eff} C_{i,i} \\ C_{eff} C_{i,i} \end{bmatrix} \begin{bmatrix} Z_{i,i} & C_{i,i} \\ Z_{i,i} & C_{i,i} \end{bmatrix}$ $+ (|-d_{i,i}|) \begin{bmatrix} Z_{i,i} & C_{i,i} \\ Z_{i,i} & C_{i,i} \end{bmatrix}$

+ ZI Vj Zer(i, j) Zer(j+, i1) (f) j, ij

150011 2018 Quapore in fevere Lots ark a question... God kap = exp[-4. | lext me / let]? - Fix D= Q==1 Similate a bund of Ky measurements to a mitif like the - what's the "spatrom" of Ky? If we have a bunch of mesovement it los (Kd) with I keelfood accuracy, wild be The Doyletson (?? TG+21 - there add in Coff for ball park stop (alsume) (C) (SC) Same questa 72 20 SCANI support we could measure of the a sunch it designed a StAte constructs when estanted? suppose us could design a bunch of sequences with Doe engenche defect, moket it we apprize E OS (MF0) - OS (According) sequence stander old if he smalte themial mappy potally- Can we do de novo inference? Over kinds of how pains that build off we? add: 8-A wk Could Sca- all 4x4=16 VANTAMI Lode for UMR turns-IN fact, could Scan all 64 vanjant Weed pribre to constrain searches, éither naire ones es, Rep on SophiAiAhdang for les FROM Prostly.

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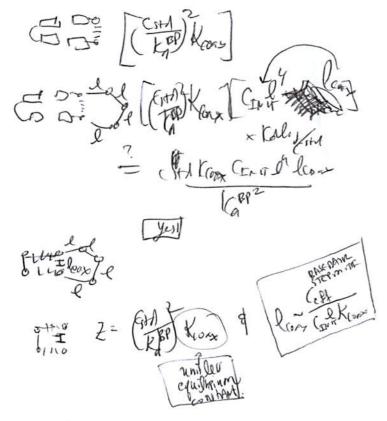






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Alternature)

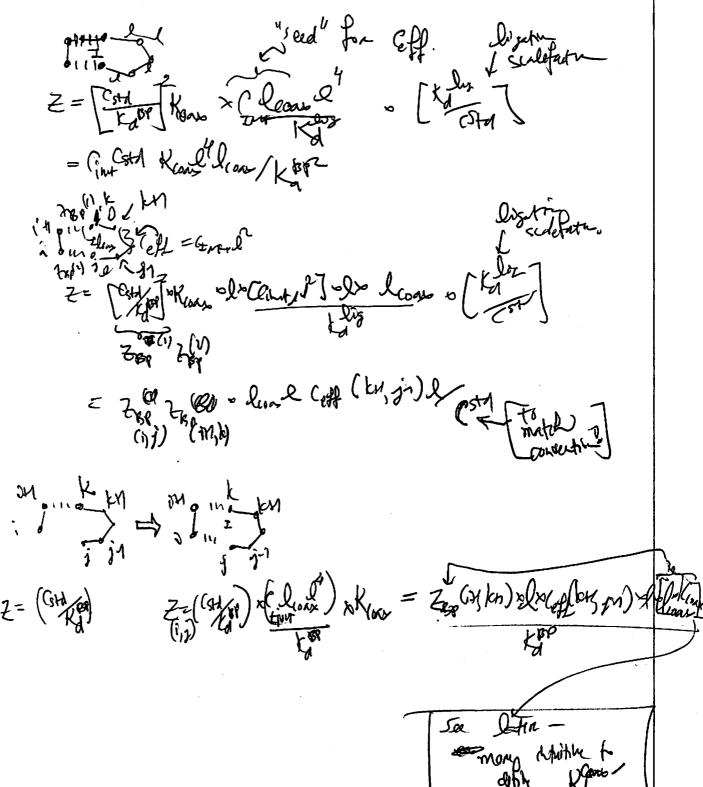
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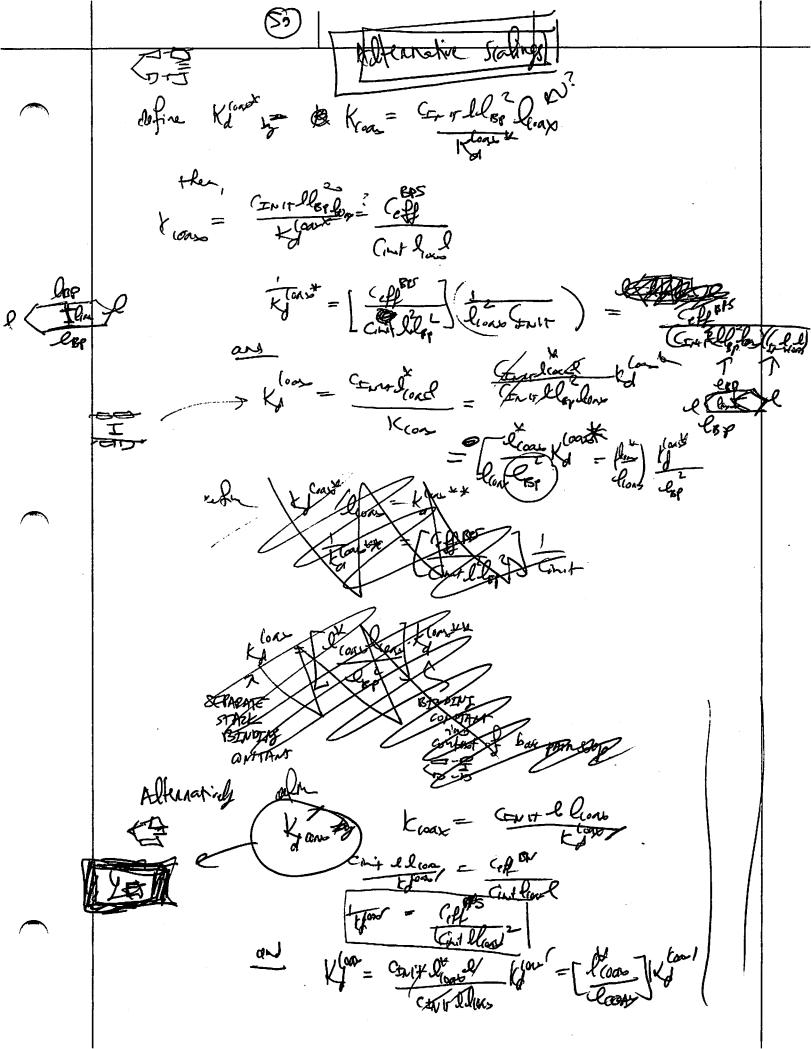


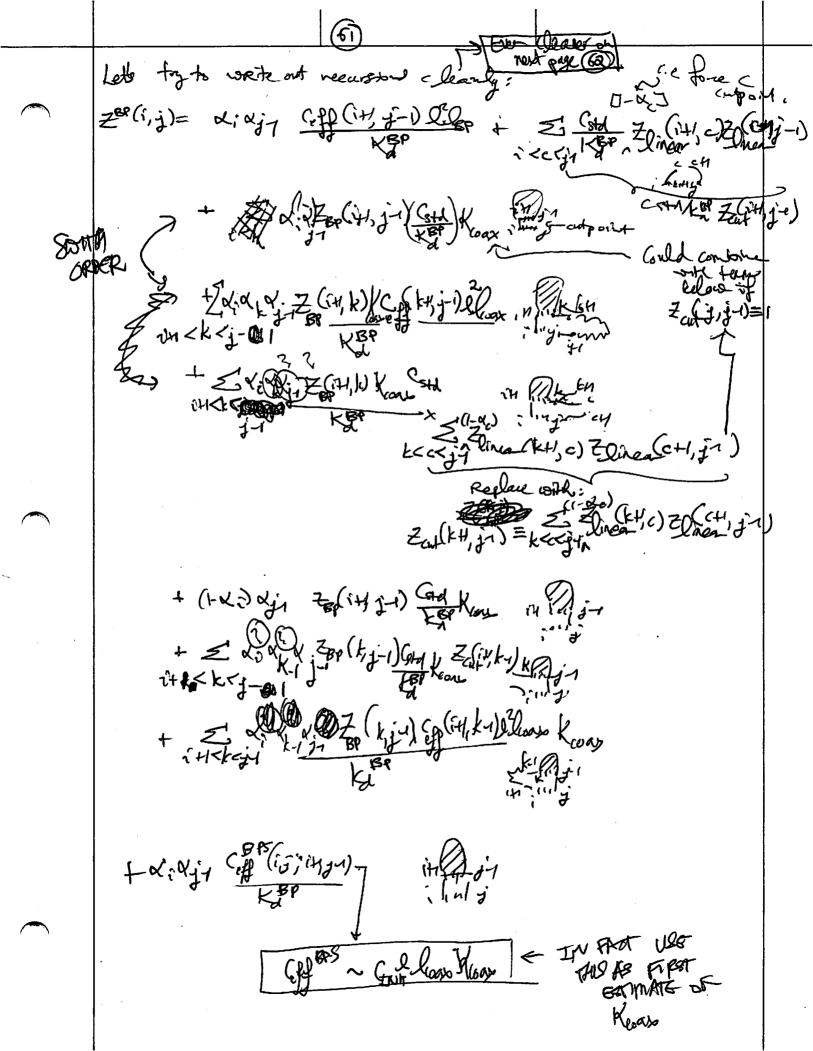
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(62)

REOLPER and simplify ZBP pecusion. Redofru: Zentij) = Z Zlinear (+1,4) Zamer (c+1,j-1) [1-0] [Single] DEFENTING ZONEW (iH, i) = 1. (check: Zent(i,iH) = 4 cutpoint in [in]) = 0; Of (iH, j-1) lare/(iBP + Can Zent (i,iH) = 4 cutpoint in [in]) + vivin Cept (Tij i Thija)/KEP in PAIR BASE PAIR + E x a x Z B (it, k) C (kH, j-1) (coas (coas & Be + Z did differ (k, july blooklean / LBP + Z x; Zg(iH, K) Cotal King Z (Kij) KB? + Z Vj-ZayCi, k) Zakka, j-1) Garkery KBP

Kan [Coff (81,81)/ Sur Draw] to for approximation.

OVER

Red of the recursions ...

Zent -> See pres. page 62

Zep -> See pres. page 62

Zoak(i,j) = Z < Zo (ik)Zo (ik)Zo(k,ik)

 $Cop(i,j) = \forall j-1 Cop(i,j-1) Q + Converge Zer(i,j) + Zer Cop(i,k-1) Qer + Converge Zer(i,j) + Zer Cop(i,k-1) Qer + Converge Zer(i,j) + Zer Cop(i,k-1) Qer C$

 $Z_{\text{Great}}(i,j) = \forall j \in Z_{\text{near}}(i,j-1) + Z_{\text{sol}}(i,j) + Z_{\text{cit}}(i,k-1)Z_{\text{near}}(i,j) + Z_{\text{near}}(i,j) + Z_{\text{near}}(i,k-1)Z_{\text{near}}(i,j) + Z_{\text{near}}(i,k-1)Z_{\text{near}}(i,k$

16, 26 (6, j) 26 (4, i-1) Kun, if Min) CD(jH, b) 12, is a Min) CD(jH, b) 12, is a Min) CD(jH, b) 12, is a min (3, is a Min

check with in last term of Employer (eff Brings)

- PARTAR modeling

Rung-15 portal

- Hand Delegation PED.

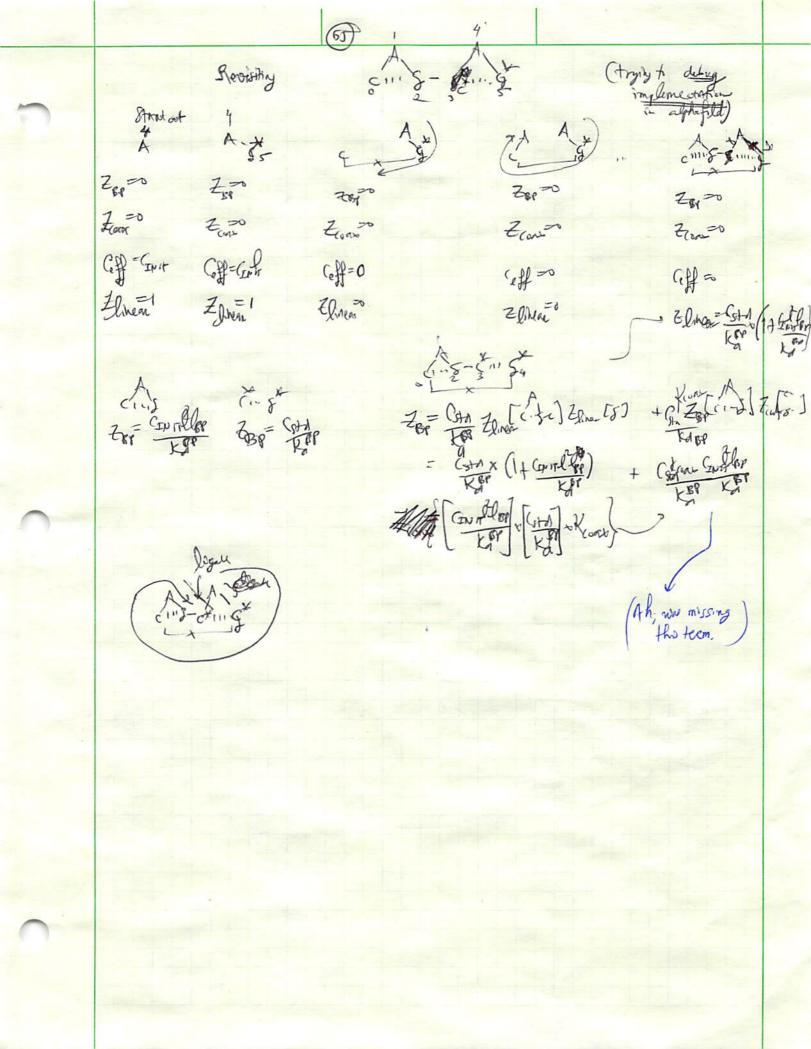
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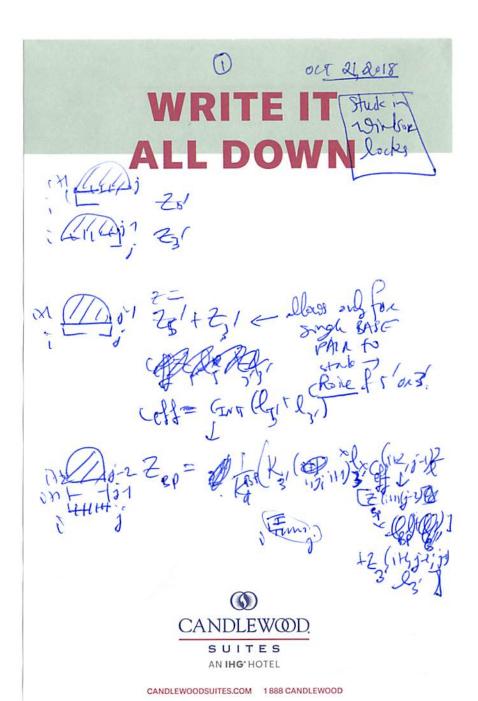
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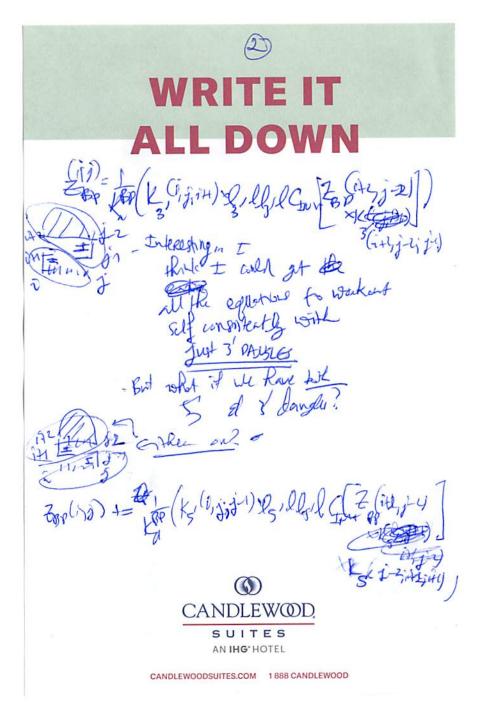
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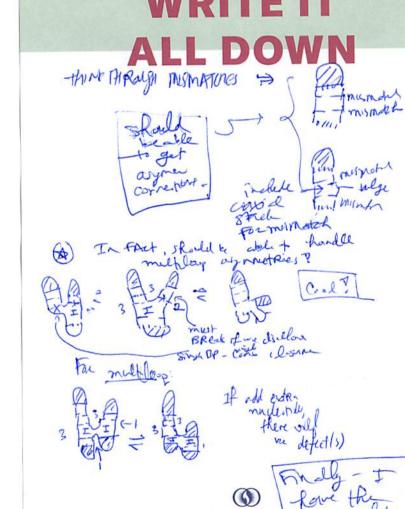
NOTES ON HOW TO MISTELLE : JETT STREET. I expression for ZPP [P.O], make following performents: ZBP = xixjy (i+1,j-1) J2lpv (in + n. + Z x; xbx-126 (in, E) (eff (in, in enlar); in, E) / RP + = ~ ~ i ~ k-psj (thir, k-1) Zp(k, j-1) l'loanx roats jsk, j-1) (BP) Coff (ij) = (eff(ij) - carrelcont (ij) where: Ceff (i)j) = Ceff (i)j) - CANT lep 289(i)j) reetly easy. might actually just track Coff (ij) = of Coffig-1) + ECACILILE (15) REP CeffCik-1) Lear(k, p) loan coff city coff (i)+ (mylerzar(i)) Ceff (ij) + Gurlant (iji) Cop (1/3) = (eff (1/3) + (plazer (1/3)) + (plazer (1/3)) whild also for simpler back treating than usubtraction cooperate above Later realized that I also need to sustant out contained from lighted BR singlet & cont singlet in Zeron

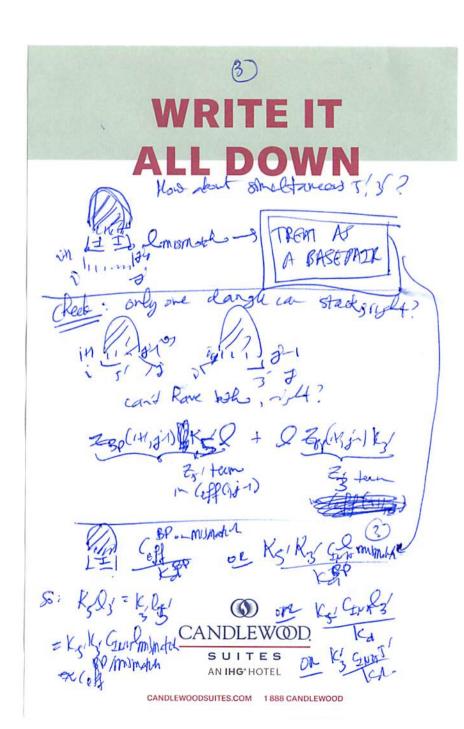
\$ See 1 (68)







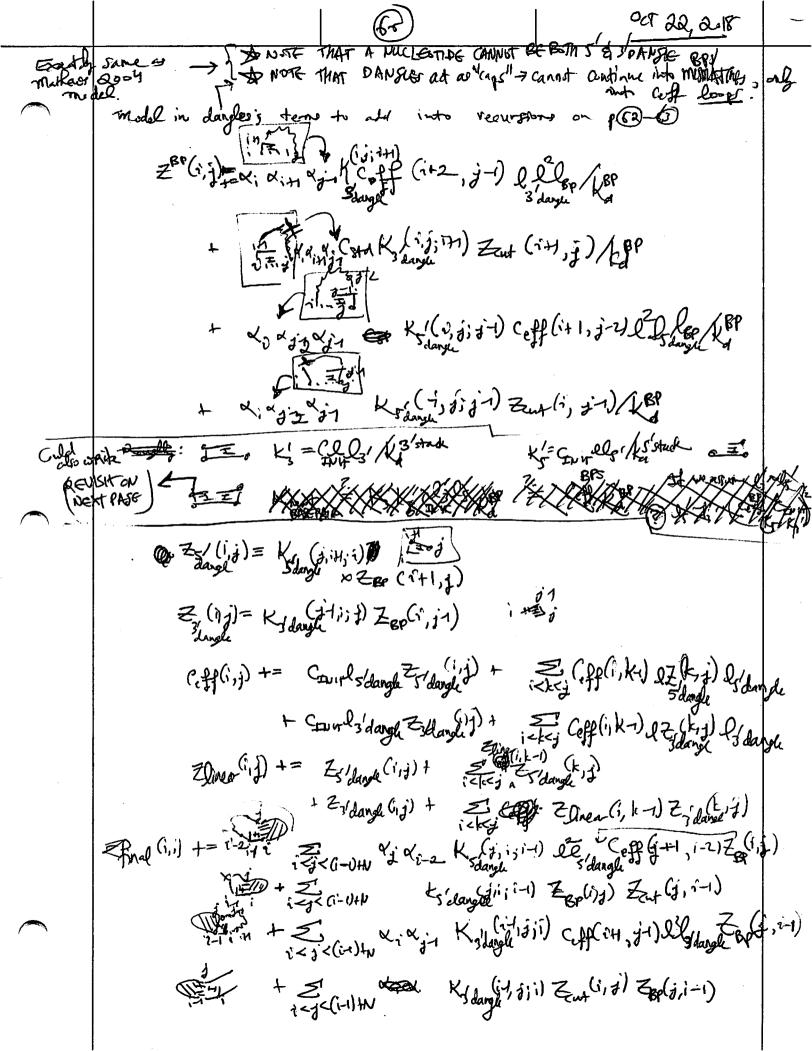




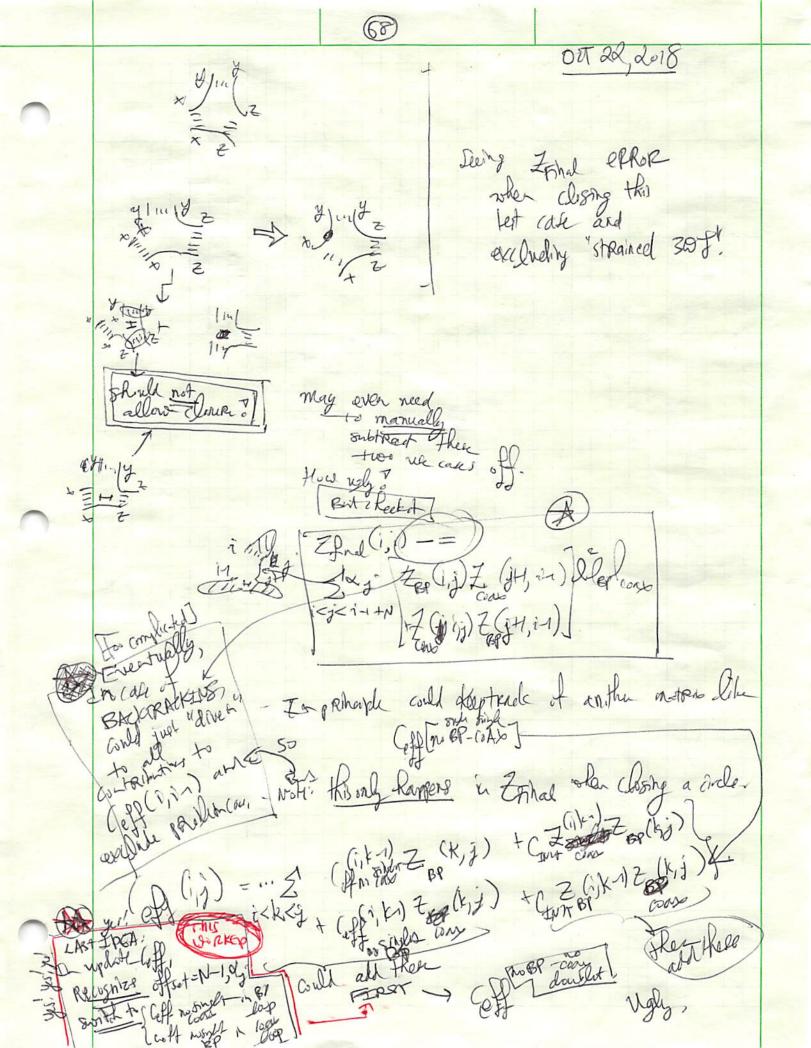
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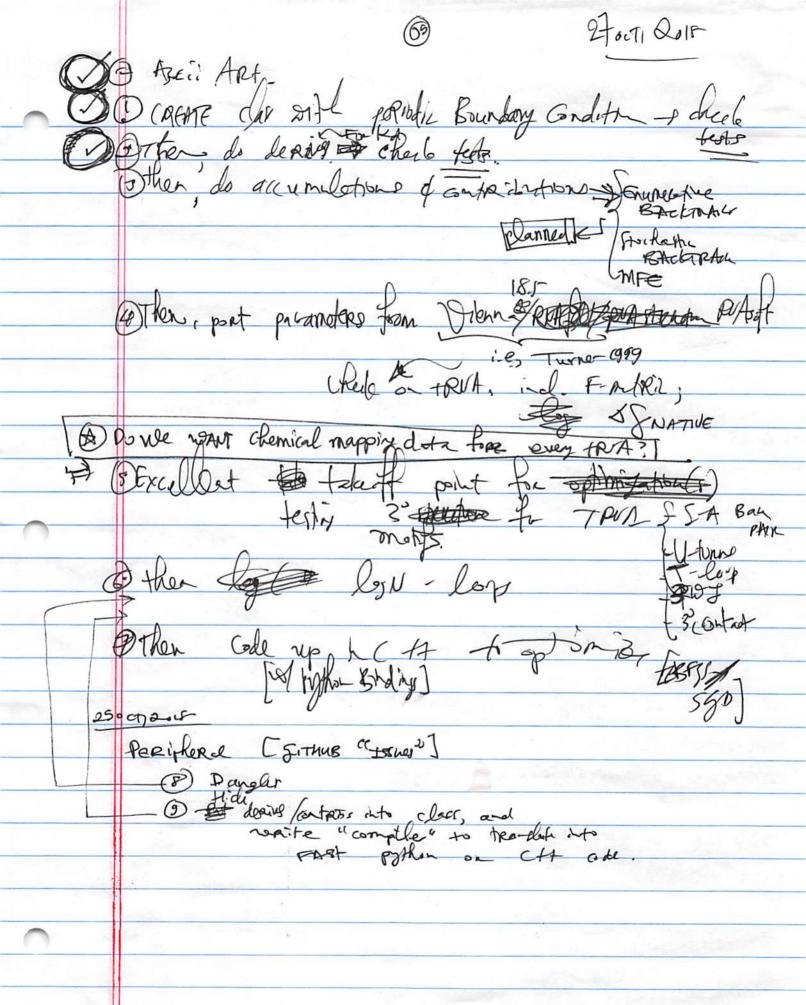
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To po:





I way to make the ade even more readable .. Consider a term: Zep (i,j) = Z 30 Z (VH, K) Cep (kH, jn) Popp in < Krj - Zeontrab Zep Then derivetive s.r.t. any prameter to is given by + 3 1 2 + 2 - 2 leg of + 1 & Kons +1

- 1 8 Kgg - 1 8 Kgg of + Kgg and dep(i)j) = 5 dep(d) (i,z,j) could also write in terms of dr. 10=A44: 2 establis) = Zep(is) 23re (is) = teply) }
= teply) = teply) = [teply) = [teply] = [teply



PRObelly easter to write out chair Rule For product: Zpp=(i))==== Z (iHk) (pp (kH, ji)) lllpp lpp Kon (2)... Fitering) = - 21 | Fertily (filting) eller for Kenker + + Z (EMIN) defleti) ellesplep Kansker + ZG+1,k)(p) (kn,j) & eller len Kon KBP + Zer(it, k)(eff(kyj1) lllkspar kua de] So we could actually keep trade of a shjeets (2 Rp) Ceff (3) take product; we product rule: (A) + (B) = (A·B) = (A·B) A·B am seeing a lot of overhead in lython when I overhead even the --gettem-- class, PRoblem: I eg. to automotivally warp Zep (iH, k) >> Zep (md (its,N), mod (k,N)) Can't Rove there in inner loops of code.

Could also accumulate separate through overloading addition; Teeder FOR MFG Storkesti BACKRAKINS Z = AB + CD FLOWERS = (SASI) = (SASI) + (SS) (SOMENS) + (SS) (SOMENS) Again, don't want the accumulation in inner loops if orde, due to ast of overlanding.

In addition, keeping trade of contributions will wit No memory (will presently NC(1800) and incu- overhead in dynamic updating of lists

instead only do it if ne're bude tracking and perhaps ever repeat calculation of at their steps.

To solve code readability problems,

could simply write a little "compiler" problem for that goes from a feet file recursions to a single rython file:

single rython file:

derived recursions, py [for exhibity]

andon

derived recursions, by [for exhibity]

(Alternative would be macros but I fine these cryptic)

In fact, as stepping store (or sanity check) as

could do ade up objects to the could be derived and contributions to a

"Regisally" do derive and contributions to a

even of the expense of speed.

Zn. n. (s)

Zn. n. (s)

Structures of $\frac{1}{2}$ Oz $Z = \frac{1}{Z}$ $\frac{1}{Z}$ $\frac{1}{Z}$ - logZ= (-12 de stendure je Zwinfr) = (njhk) - 2nj > Cnt minimal free es Suppose t Rave maximum Substant target: wij 2 SUATIVE - IN INTIVE WINE + [<n,n/>-<n,>ch/c> = 00000000 < mg hp .- < mg> < mb> Is this avariance matrix always positive definite?



Notes - KARLTRAZERAS.
Reduce to "Simple recurrors" fin)= & Coffinj-1)elle + E Zheelit, a) Blin (41, j-1) (61) Ceff) = Coff (i,j-1) & + Cint Zp (r,j) lep + 2 = (lik-1) 2 (6;) Eliver = Eline (i) j-1) + Zer (i,j) + = Zonar (i,k-1) Zo(kj)

Zine = Zancer (i,i-i) it it is compart



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4	-ask For each contribution
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ENVEMBER, 2018

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PARENS . Ceff + TO distributions what she stong?