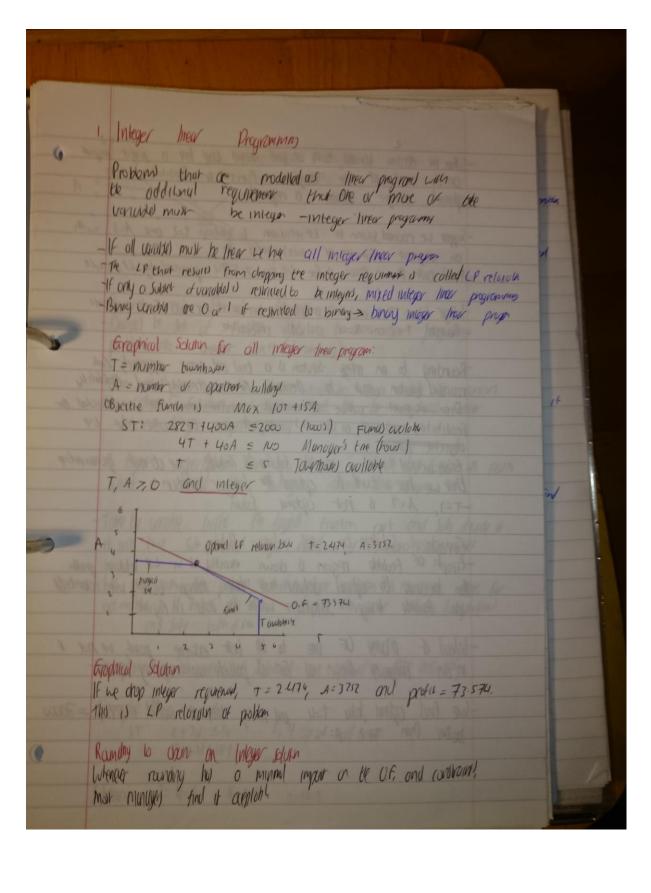
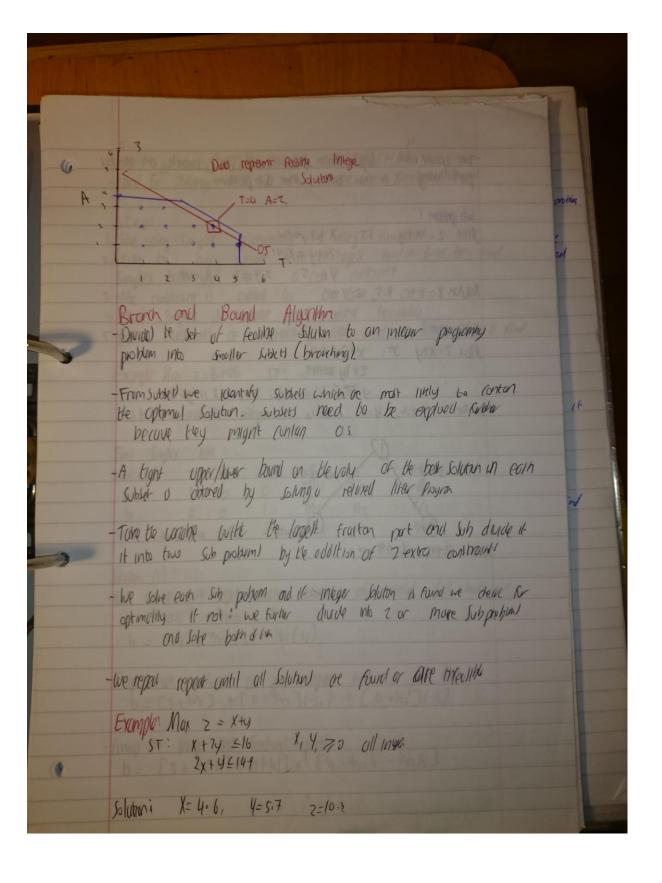
4/12/12 Mang Siene 1 Types of Meyer Programming -LP where all conord) are related to be integer. All integer is 128 Hanly a Subset of variance are restrict to be integers - Mixed integers Binary variable 1 or O. Binary Megar L.P. - IP that results from dropping the integer regiments is called LP reloxals of the ILP Mohaga GRAPHIAL Pich integer solution peopelt to the relaxed optimum Branch and Bound - Divide the set of Feeline Solutions to an inlegar Proman Into smaller subsets (brooking) From the subset we then identify the subset that are make likely to contain the opened Solution and the subset that now be expland further because they and not pelling contain the opening solvin -Branch on lorgest fraction with wonable Cutting Plane - Solve problem using simplic procedure clib regarding the integer condition - toking the basic variable with the largest factor from the final simplex tube and from a art conting - Constraint odded to take - Dual Simplex 1) yeld to rethe feather - Herotuly odded with 1.5 is obtained

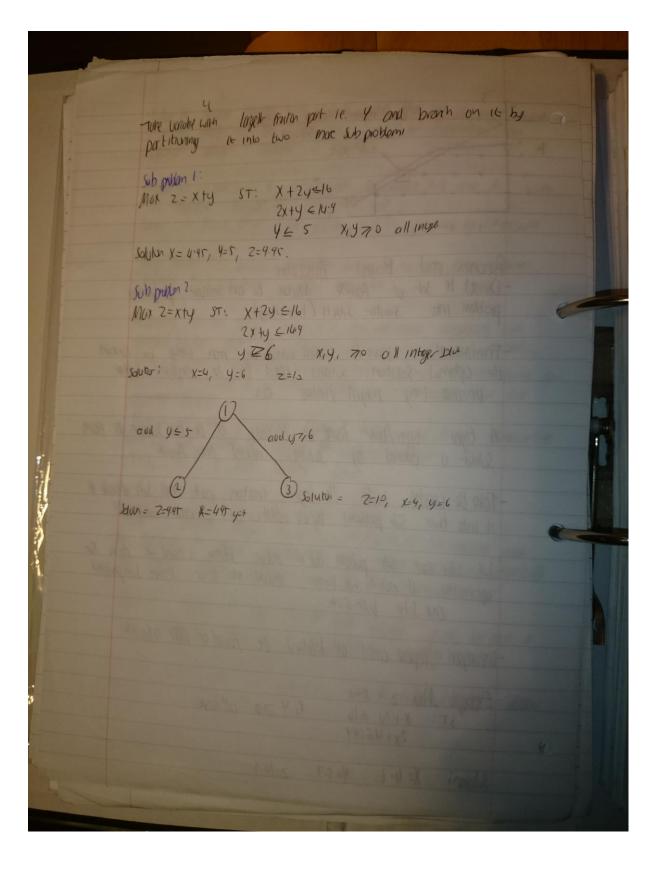
BALAS - Trombolm problem - Convert mox to min x & O - Replace Willy negation with XT = (1-27) - Constant of = conseiled to e by -1 - W (3) convents - Change book x = (1-x 5) at end Solution To Rolas. N= Set of de as vagles T = set Uf decision variables =1 Z = volve of dispective Given S = And of intessibility in each constrain. Goal Programming Decora maker need to consider multiple critique in arming of Overall Dest decision desired and Formlong Grant 30 phones Identify had" constrain, then the good and any constrain on actives the goals, then the priory of the constraint, the Decular vors and lost of oll O.F. -A had" constror is one that must be satisful Doung - Identify the Geosible Solution - Identity feesing space that will achieve higher grown will it no side. Solution spar the closen point to the achievement Move to rext long privity hel and determ bed solution possing without socrating any orninary of high - Keoppor



- When the decoins would take an small value that have a major impart on the coole of the objective function or feasibility, an and integer solution is required on objective funcion of 10(2) + 15(3) = 6. - Annual cosh flower from 1) for less than 73,574 provided by LP relevance Hologo Solver T=3 and A=3 v infeative becase it exceeds fund constant - Ranged t=2 or A=4 1) also infeosible Rounding to an intege solution is a trial and error approuch took rounded blution must be decined as optimolity and tradibility Even in faith where a rounded solution must be evaluated for feasibility of well as for its import on the value of the - Even in cold were a nuntal solution of failule, we const quarrate Graphical Solution to All linear Robbin

- Graph of Fewhole region is drawn exolety as in LP reliation protein - Then because to optimal solution more hope integer value, we identify the Rolling Muyer Solutions with the down in Figure In an improvey direct as for a possible until reading a def. we find uphas blue t=4 and A=2, vole of 10/41 + 15/2) = 7000





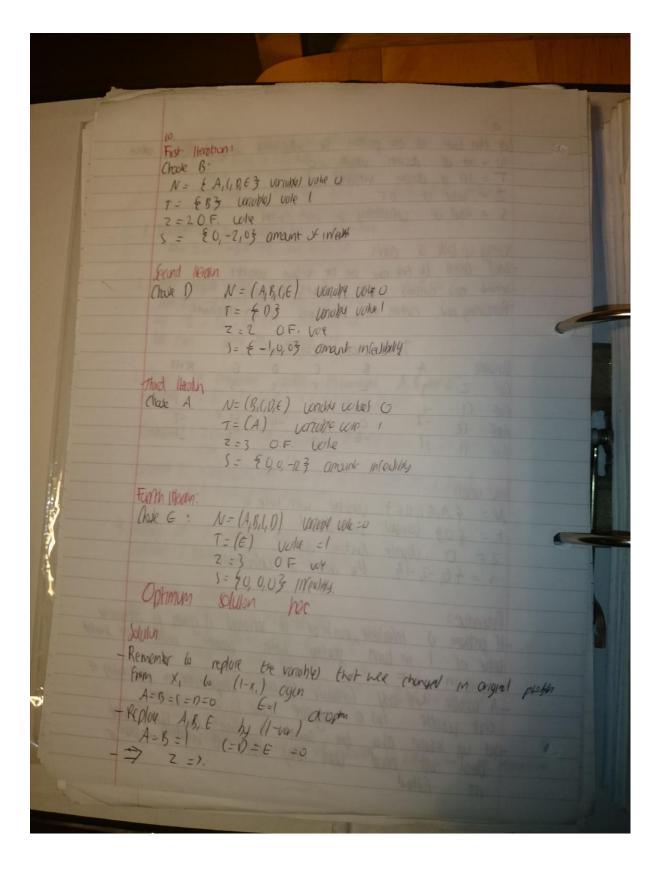
	T
5.7	
-Used for Solving L.P as an otherwise to Brown and bound	
-Used fir Solung L.P as an othernote to Brown bound	-
STEPS:	
1. Solve wing simplex disregarding the integer conditions	
2 toke the basic variable with the logest front from the final simplex table and form a cut constraint.	
3 The constraint of added to the take	
4 Duul simplex i) petales wed to restre feasibility	
5. (ut contraint) as theretively added until an integer solution of soul	
Example: Max 2=2+96 ST: -a+366	
70+h ≤ 35	16
0, b 70 and all integer	
First Goods table	
Basic Z a b Si Sz RHI	
b 0 0 1 7/12 1/2 7/2	√
a 6 1 0 -1/2 3/2 9/2	
S MILE	
Solution (1)	
- Balic wripp with larger faction solution is now selected (b) which give	
b = 712 + 7/12 (-5,) + 1/12 (-52)	
- Expres) each coefficient a) on integer with a point have b = [3+1/2] + [0+7/22](-s,) + [0+1/2](-sz)	
b= L3+1/2 / + L0+/22 /[-3, ] + L0+/22 /[-2]	
- Grown the Integer and Courtand parts.	
- Group the Integer and freethand parts:  b = [3 + 0(-51) + 0(-32)] + [1/2 - 7/22] - 1/2252]	

Thought are arrangly a line to findered put mix to to C12-75217222. \( -7222. \) -72222. \( -7222. \) -	
Ang of ar contracts of that be frontared part must be \$\leftarrow{\chick}{2}\)   \( \text{Cit2} - \text{7721} \) \( \text{-1232} \) \( -12	
-7/12   -7/12   5   7   7   7   7   5   5   7   7   7	
- Concort this Continent into an equality by adding a skell variable and add to the fine! table:  -7/2257/225 tss = -1/2  Basic 2 a b & \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	[112-7/12)2 ] = 0
Variable and add to the final table: -7/2557255 ths = -1/2   Basic 2 a b & \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-7/25, -1/252 & -1/2
Variable and add to the final table: -7/2557255 ths = -1/2    Basic 2	-Convert this constraint into an equality by adding a stack
Basic 2 a b & \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	variable and add to the final table:
b 0 0 1 7hz 1/12 0 7/2  a 0 1 0 -1/2 3/12 0 9/2  S <sub>3</sub> 0 0 0 -2/12 -1/2 1 -1/2  Table b now bold, optimen but interstible  -be deal limiter to nerve intertibility while mountary generally  -ble need to first learny and enterny varieties  ->> learny varieties S <sub>3</sub> , enterny 15 S <sub>4</sub> Solution 2.  basic 2 a b S <sub>1</sub> S <sub>2</sub> S <sub>3</sub> RH1  D 0 0 1 0 0 1 3 59  a 0 1 0 0 0 1 3 59  a 0 1 0 0 1 17 22/7 11/2  Still Not a integer form (online) or polite finality:  Exper) each coefficient of a major with a polite finality:  0 = [u+4/+3] + [0+1/+7] (5+1) 1 5 0 polite finality:	-7/251 $-1/252$ $+55 = -1/2$
b 0 0 1 7hz 1/12 0 7/2  a 0 1 0 -1/2 3/12 0 9/2  S <sub>3</sub> 0 0 0 -2/12 -1/2 1 -1/2  Table b now bold, optimen but interstible  -be deal limiter to nerve intertibility while mountary generally  -ble need to first learny and enterny varieties  ->> learny varieties S <sub>3</sub> , enterny 15 S <sub>4</sub> Solution 2.  basic 2 a b S <sub>1</sub> S <sub>2</sub> S <sub>3</sub> RH1  D 0 0 1 0 0 1 3 59  a 0 1 0 0 0 1 3 59  a 0 1 0 0 1 17 22/7 11/2  Still Not a integer form (online) or polite finality:  Exper) each coefficient of a major with a polite finality:  0 = [u+4/+3] + [0+1/+7] (5+1) 1 5 0 polite finality:	Basic 2 a b & S S S RHI
Totle of the volid optimen but infeablide  We dool simples to some infeablide with read to find learny and enterny varieties  The learny varieties of a bound of the properties of the read to find the read to f	2 1 0 0 3/11 5/11 0 67
Totle of the volid optimen but infeablide  We dool simples to some infeablide with read to find learny and enterny varieties  The learny varieties of a bound of the properties of the read to find the read to f	a 0 1 0 1/2 1/2 0 7/2
Table is now volid, Optimen but Infealishe  -the deal Simples to review Meanly while Mainting aptimally  -the need to find learny and enterny variable  ->> learny variable sz, enterny is s,  Solution 2.  Basic 2 a b st sz sz RHI  b 0 0 1 0 0 1 8 59  a 0 1 0 0 1/4 1/1 2/17  Still now in integer form (online a new Cut contract  Exper) each confinat of a Main with a position foreign.	53 0 0 0 -7/12 -1/12 1 1/2
=> learny variable 53, enterny 15 S,  Solution 2.  Basic Z a b St S2 S3 RH1  b 0 0 1 0 0 1 8 59  a 0 1 0 0 1 7 1/4 2/7  Still Not an integer form (on hist a new all control  Exper) each coefficient as a man way a pather feather:	
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=> learny variable 53, enterny 15 S,  Solution 2.  Basic Z a b St S2 S3 RH1  b 0 0 1 0 0 1 8 59  a 0 1 0 0 1 7 1/4 2/7  Still Not an integer form (on hist a new all control  Exper) each coefficient as a man way a pather feather:	- We need to fact leave and appears would
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Solution 2  Basic Z a b S, Sz S3 RHI  D 0 0 1 0 0 1 8 59  a 0 1 0 0 0 1 3  S, U 0 0 0 1 17 22/7 11/7  Still Not in inlager form (online u Ms au Cut control  Expe) each coefficient of all Man with a Rolling:  a = [u+4/4] + [0+1/4] F(1) + [0+1/4] F(2) + [0+1/4] F(3) + [0+1/4] F(4) + [0+1/4] F	-> leaving variable s3, entering is s,
Still Not in integer form (on hour u new Cut contributed as Man with a Rather?	Solutin 2
Still Not in integer form (on hour u new Cut contributed as Man with a Rather?	Basic 2 a b 6 6
Still Not in integer form (on the or rev Cut contributed as Mar with a Rayle forthist of a Mar with a Rayle foother?	2 1 0 0 0 1 32 RHI
Still Not in integer form (on hour o new Cut contributed as Exper) each coefficient of as Major with a Rayle fooding:	39
Expe) euch codition of a Man with a Rather :	5. 0000 17 1/2 2/2
Expe) euch codition of a Man with a Rather :	(1) 1/7
0=[4/4]+[0+1/7]F() NON WAY O RANGE SOUTH	Pall flor in integer form Couldn't
0=[4/4]+[0+1/7]F() NON WAY O RANGE SOUTH	Expel) eath collins
GIVE W CUt CONSONT: 1/4(-J2) + 6/4 (-J3) + Ju = 4/4	0= [u+4/4] + TO+1/2) MAN WIND O DING COL
ADD to take:	( + 1 (-1 + 64 ) ( -3 ) rollis
100 tole: 4131 TXI = 414	ADD (at Considert: 1/4(-12) + 6/4 (-1)
	tobe: 13/ TX = 4/4
The state of the s	

	O Z	
-(0	Basic Z a b 51 52 55 54 RHU  Z 1 0 0 0 1 8 6 59  b 0 0 1 0 0 1 0 3  a 0 1 0 0 1/1 -1/1 0 32/1	onities
	Si 0 0 0 0 1/1 -1/1 0 32/2 Si 0 0 0 1 1/2 -22/2 0 11/2 Su 0 0 0 0 -1/1 -6/1 1 -4/1	
	STILL NOT FEASIBLE: REPEAT	
	Robin 7 L C C S & RHI	
	2 1 0 0 0 0 2 7 55 b 0 0 1 0 0 0 1 0 3 a 0 1 0 0 0 -1 1 4 S2 0 0 0 0 1 6 -7 4	16
	Advantage of the 250 A-U and b-7	
	Used for solving {0,13 Integer problems	~
!	Program must be in the following form:  The objective function must be minimised.  All the coops in capacition frontion must be positive.	
4	All the coes in objective further mult be polite  All constraint mult be & type  Transcrube	
1 2.	Transformulan  (one/f a max to a min by multiplying by 1.  Replace while x, that have nagate sign by 1-x;  Constrain Ut = are converted to \( \sigma \) by multiplying both sides by t	
ad matrical	TO COMPANY OF THE PARTY OF THE	
		-

Example: Max Z = 3A + 2B - 5C - 2D + 3E ST: A+ B+ + + 20+E =4 7A + 3c -40+3E = 8 11A -66 +30 -36 71 3 A,B, 4,D, & & 6,13 1 Transfam O.F by multiplying by -1 60 minuse Min z - -3A-2B +5(+21)-3E 2 Replace negative condition in O.F. by (1-var) Mn 2 = -3 (1-A)-2(1-B) +5(+21)-3(1-E)=7 2 = 3A + 2B + 51 +20+3E -8. We can omit the constant (8) 3 Change the consequency variety in constants A, B and E Constraint 1: (1-A) + (1-B) + (+20(1-E)=4 -A-B+(+2D-E=1 Contrant 2:  $7(1-A) + 3(-4) + 3(1-E) \le g$   $-7A + 3(-4) - 3E \le -2$ Constraint 3: - FANTS G. SHAD 11(1-A)-6(1-B)+3D-3(1-E)7/ -11A +6B +3D+3E 31 4 Muliary all 7 Constrains by-1 Contract 3 brones: 11A -66 -30-3E =-1 Transferred Problem: Min 2 = 3A +2B+51 +20+3E -8. Subject to: -A -B+(+2D-E ∈ 1 -7A to +3( -4D-36 < -2 11 A 6B +0 30-3E 5-1 AB, GOE E 913 Method for solution: -After Initial transporation we set all variable to zero or as minimuser

	TO II
Q the City of Addition	
we then look at the problem for infedibility using the following roken	11
$AV = Set \ dc \ decision \ variables = 0$ $T = Set \ dc \ decision \ variables = 1$	moldes
3 1 de 0/ 0 F	
s = level of organishing in each control	Ted .
setting up take of coefs. Loved around the first now are the decision vanishes.	
perand row contain O.F. coefy all pinhe	
Rencymny new contain the coefficients of the constraints.	
Table of Coefficial RHS	
variable A B C 3 0	16
(a) (1 -1 0 -10 m) (2 m) -1 1 1 m)	
COF 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	
. (. 11	
	W
N = {A,B, (, D, E } Vonche) with value o.	
5 = 46, -2, -13 the answer of cheesibility	
3 - (0, 7 ha) (Mah) (200 0 9 3 2	-
Provedue:	
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whe of I in turn starting with voices	
Procedue:  If protern v infeatible, each of the wright) is given its allernature.  Whe of I in turn starting with various with the small while of I in turn starting with various with the small coef in a F.  A variable will only Continue to an improvement in feasibility its but variable has a pagathe coef in a constrain.  But variable has a bee similar to Breath and Bound and set up solution as a bee similar to be a valid solving a deal all noces with the continue of the con	
A wordy will any to mind coot in a constrain.	
that which it is and and Burn and Burn and	



Special C-1 (Conhaunt)  When x, and x5 stephor brow without desputy whether postered i and x have been competed, be always special consonant may be promoted:  At most k out of n project i:  X5 - 1, 50  Arexist is account for post i:  X5 - 1, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge mutually exclude x x + x, 50  Droject i and T Ge y x x x x x x x x x x x x x x x x x x		
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- Angel 5 D conditual on projet 1:  - Angel 5 D conditual on projet 1:  - Angel 1 D conditual on projet 1:  - XT - X, 50  - Droyell 1 and T are mutually excluse  X3 - X, 50  - Droyell 1 and T are mutually excluse  X1 + X3 5 1  - Extraple  I was a project 1 and T are mutually excluse  Formula 0 & E4 13 fine program  Drodul te Instit Indua few foot project  I was a project  I was	special constraints may be formulad:	
- Angel 5 D conditual on projet 1:  - Angel 5 D conditual on projet 1:  - Angel 1 D conditual on projet 1:  - XT - X, 50  - Droyell 1 and T are mutually excluse  X3 - X, 50  - Droyell 1 and T are mutually excluse  X1 + X3 5 1  - Extraple  I was a project 1 and T are mutually excluse  Formula 0 & E4 13 fine program  Drodul te Instit Indua few foot project  I was a project  I was	-At most kast up n grosell will be commed	4
Those of D conditud on projet 1:  XT - 1, 60  Arch i 1 corellula for projet 1:  XT - 1, 60  Droyel 1 i and T are mutually explant  Xi + x5 \leq 1  Extraple  into Murry plant to expand. Some for project line) addite  Formula 0 & \( \frac{1}{2} \)	Z X S K	
Argent i il coreava ex pose 5:  Troyent i and T are mutually extented  X7 - X; = 0  Troyent i and T are mutually extente  X1 + X5 = 1  Except  Inter Musey plant to export. Some ten probable  Formula 0 & £ 4 13  ma program  Probable Intellinate the long probable  Formula 6000 12m 2014.  2 last TV 12 aux 150 40  3 Regar TV 20 aux 200 11.0  4 ucx 14 aux up 10.5  5 Adapt 15 aux 200 10.5  6 van tote 2000 20 10.1  1 the core 3200 10 10 13.2  - Calcul Sould Not flast program TV united they have aim tiplate as also TM  - will not from both here are 100 payors  - strike color 3 reas ordate last  - last two gard it saw color the	On a 22 2 week active relief reast may mile and be	
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- Crewd Sould Not Stall projection TV united they shall are Trylus at other The - will not stalk both U.R.I are 1200 physol - stalk was good if shall color in - laboration coloring.	7 Hap (age 32000 100 13 C	
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- will not stock both ICRI and IAD physol  - stock was good it had color in.  - Introduce albeit 3 rea probat lad  worms to link you show since murine and them	- Cercuit Sould Not Stall projection TV unital they shall each TV/less or John TV/less or John TV	1
- Straid Livia good if Jak color TV  - Introduce collicts 3 rea produit for  Location to links 400 films force marriage Annual Holon	- well not stock both KRI are tall payor!	
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from to inte 400 flow lorde Minimus Attled Holim	- Invicto allat 3 rev probat 10	
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XJ = 1 if probat live inhabited a occurre Max 2 = 0.181/600/4, + 0.04/12000/4, + Q.11/2000/x3 + 0.102/1400/x4 + 0.10+/15au/x+ + 0.141/2au/x0 + 0.132 (37au)xx 1 Morey: 6x, +12x2 +20x2 +14x4 +15x5 +2x6 +32x4 =45. 2 Space: 125x1 +150x2 +20x3 +40x4 +40x5 +20x6 +100x2 =420 3 Stone proyen The only If show There or infor the X1+X27x3 = 0 X1+x2-X772 4 Do not Stolk both Valence DVD X4 +X5 € 1 5. Stoll uses your It Sold coor TUS ×2-X670 6 Invodue or least 3 new hel X + x2 + x3 + x4 + x5 + x6 + x7 7/3 7. Varand al o or 1: X7 = 0 or 1 fr J = 1,2 7 Sauton Introduce: Tulver, person v, and an places Do not Introduce (40 Tu), Voll, Volla gore, have compile Total expecial retur = & 4261