

Step 1: Initialization

ZIP \(\) 36.81

Branch on \(\times \)

Step 2: Solve P2 and P3. Branch on P2 bk Zp2 7 Zp3
Step 3: Solve P4 and P5. P4 becomes incumber solution, Branch

On P3 because Zps 7 Zps

Step 4: Solve P6 and P7. Fathon P7 because its infessile.

Branch on P8 because Zps 7 Zp6

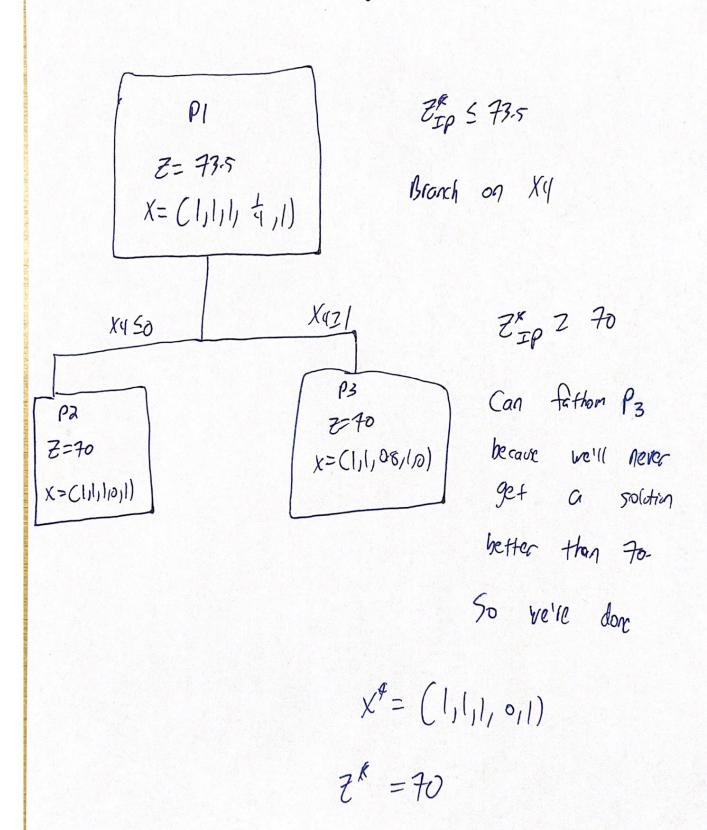
Steps: solve P8 and P9. Eliminate P9 because intersite.

Branch on P6 because Zp6 7 Zp8

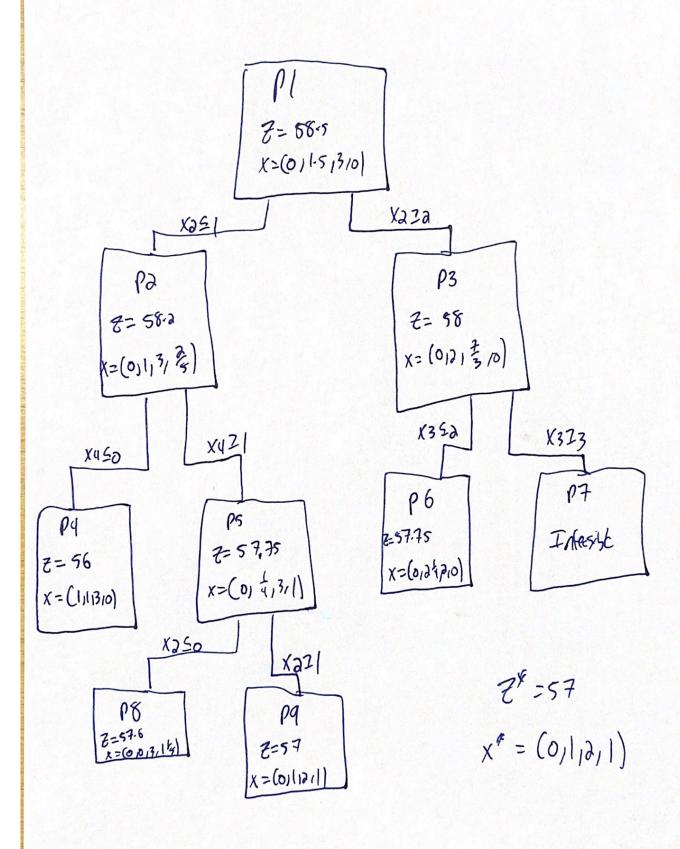
Step 6', solve Plo and Pl1. Fathon Pll be infessible. Zplo 7 Zpy, so Plo becomes ar current solution. Fathorn P4, Also 347 Zps so fathon 18. No actic nales left. Done.

2) (Note this one is too easy)





3) Tree below, interpretation next page



Branch Pa

Step 3: Solve P4 and P5, Get incommat solution $56 \le Z^{x} \le 58$ Branch P3

Step 4: Solve P6 and P7

Elinincle P7. Now $56 \le 7^k \le 57075$ Branch N5

Step 5: Solve P& and P9. P9 is integer and replaces
P9. Now

57 £ Zr £ 57.75.

I stopped here. X must be integer and all of Obj nov a linkyr. Thus Z must be integer. Since $S75Z^*557^*5=$ $Z^*=3557$ which we have.