Min $X\_{1,1}+0.2I\_{1,1}+X\_{1,2}+0.2I\_{1,2}+X\_{1,3}+0.2I\_{1,3}+0,5X\_{2,1}+0.1I\_{2,1}+0,5X\_{2,2}+0.1I\_{2,2}+0.5X\_{2,3}+0.1I\_{2,3}+5W\_{1}+10O\_{1}+5W\_{2}+10O\_{2}+5W\_{3}+10O\_{3}$

Υπό:

1. $X\_{1,1}-I\_{1,1}=300$
2. $X\_{1,2}+I\_{1,1}-I\_{1,2}=600$
3. $X\_{1,3}+I\_{1,2}-I\_{1,3}=750$
4. $X\_{2,1}-I\_{2,1}=3000$
5. $X\_{2,2}+I\_{2,1}-I\_{2,2}=5000$
6. $X\_{2,3}+I\_{2,2}-I\_{2,3}=4000$
7. $X\_{1,1}+0.5X\_{2,1}-W\_{1}-O\_{1}=0$
8. $X\_{1,2}+0.5X\_{2,2}-W\_{2}-O\_{2}=0$
9. $X\_{1,3}+0.5X\_{2,3}-W\_{3}-O\_{3}=0$
10. $W\_{1}\leq 3500$
11. $W\_{2}\leq 3500$
12. $W\_{3}\leq 2500$
13. $Ο\_{1}-0,3W\_{1}\leq 0$
14. $Ο\_{2}-0,3W\_{2}\leq 0$
15. $Ο\_{2}-0,3W\_{2}\leq 0$

$$X\_{1,1},Χ\_{1,2},Χ\_{1,3},Χ\_{2,1},Χ\_{2,2},Χ\_{2,3},Ι\_{1,1},Ι\_{1,2},Ι\_{1,3},Ι\_{2,1},Ι\_{2,2},Ι\_{2,3},W\_{1},W\_{2},W\_{3},O\_{1},O\_{2},O\_{3 }\geq 0$$

Δυικο να ουμ

Max $300u\_{1}+600u\_{2}+750u\_{3}+3000u\_{4}+5000u\_{5}+4000u\_{6}+0u\_{7}+0u\_{8}+0u\_{9}+0u\_{10}+0u\_{11}+0u\_{12}+3500u\_{13}+3500u\_{14}+2500u\_{15}+0u\_{16}+0u\_{17}+0u\_{18}$

Υπο:

1. $u\_{1}+u\_{7}\leq 1$ $X\_{1,1}$
2. $-u\_{1}+u\_{2}\leq 0.2$ $I\_{1,1}$
3. $u\_{2}+u\_{8}\leq 1$ $X\_{1,2}$
4. $-u\_{2}+u\_{3}\leq 0.2$ $I\_{1,2}$
5. $u\_{3}+u\_{9}\leq 1$ $X\_{1,3}$
6. $-u\_{3}\leq 0.2$ $I\_{1,3}$
7. $u\_{4}+u\_{10}\leq 0.5$$X\_{2,1}$
8. $-u\_{4}+u\_{5}\leq 0.1$ $I\_{2,1}$
9. $u\_{5}+u\_{11}\leq 0.5$ $X\_{2,2}$
10. $-u\_{5}+u\_{6}\leq 0.1$ $I\_{2,2}$
11. $u\_{6}+u\_{12}\leq 0.5$ $X\_{2,3}$
12. $-u\_{6}\leq 0.1$ $I\_{2,3}$
13. $-u\_{7}-u\_{10}+u\_{13}-0.3u\_{16}\leq 5$ $W\_{1}$
14. $-u\_{7}-u\_{10}+u\_{16}\leq 10$ $O\_{1}$
15. $-u\_{8}-u\_{11}+u\_{14}-0.3u\_{17}\leq 5$ $W\_{2}$
16. $-u\_{8}-u\_{11}+u\_{17}\leq 10$$O\_{2}$
17. $-u\_{9}-u\_{12}+u\_{15}-0.3u\_{18}\leq 5$ $W\_{3}$
18. $-u\_{9}-u\_{12}+u\_{18}\leq 10$ $O\_{3}$