Example of Branch-and-bound 分支室界 Q: Max 8= 3x fty Subject to 2x+3y < 8 x,y >0 , x,y 6 Integers. Solution @ Solve the Lp Relaxion Ignore the integer restriction  $\chi=0$ ,  $\gamma=\frac{8}{3}$ , 2=13.33 -> best LP solution x=4, y=0, Z=12 3 Branch on a Fractional Variable (1,2) min(3y)=9>8 2-13 infeasible.
Optimal integer solution