Model 9: Investments Maximize the amount of money that can be accumulated by the beginning of year 6

```
A_1: dollars invested in activity A in year 1 A_2: dollars invested in activity A in year 2 A_3: dollars invested in activity A in year 3 A_4: dollars invested in activity A in year 4 B_1: dollars invested in activity B in year 1 B_2: dollars invested in activity B in year 2 B_3: dollars invested in activity B in year 3 C_2: dollars invested in activity C in year 2 C_3: dollars invested in activity C in year 2 C_3: dollars invested in activity C_3 in year 5 C_3: dollars not invested in year 1 C_3: dollars not invested in year 2 C_3: dollars not invested in year 3 C_4: dollars not invested in year 3
```

 $\max 1.40A_4 + 1.70B_3 + 1.90C_2 + 1.30D_5$ $A_1 + B_1 + R_1 \le 50000$ $-A_1 - B_1 - R_1 \le -50000$ $A_2 + B_2 + C_2 - R_1 \le 0$ $-A_2 - B_2 - C_2 + R_1 \le 0$ $A_3 + B_3 + R_3 - 1.40A_1 - R_2 \le 0$ $-A_3 - B_3 - R_3 + 1.40A_1 + R_2 \le 0$ $A_4 + R_4 - 1.40A_2 - 1.70B_1 - R_3 \le 0$ $-A_4 - R_4 - 1.40A_2 + 1.70B_1 + R_3 \le 0$ $D_5 - 1.40A_3 - 1.70B_2 - 1.90C_2 - R_4 \le 0$ $-D_5 + 1.40A_3 + 1.70B_2 + 1.90C_2 + R_4 \le 0$

 $A_1, A_2, A_3, A_4, B_1, B_2, B_3, C_2, D_5, R_1, R_2, R_3, R_4 \ge 0$