Instituto Tecnológico de Costa Rica

Operations Research - Semester II

Equipment Replacement Problem

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Equipment Replacement Problem

Note: This problem includes inflation consideration with a constant rate of 2.00% per time unit.

The equipment replacement problem is an optimization problem that involves deciding the optimal time to replace a piece of equipment (sell and re-buy) to minimize business costs. There are four main components to this problem:

- The project term (e.g. 5 years long project)
- Life span of the equipment
- Price of new equipment
- Maintenance costs (could increase as equipment ages)
- Sell prices (e.g. 4 year old equipment can be sold for $50)

The problem involves determining the optimal number of equipment replacements and the timing of each, in order to minimize operating costs.

Given the following variables:

- t_{max}: Project term
- t_{span}: Lifes span of equipment
- t: A given instant through the project term.
- C_{tx}: The cost of buying at instant t and selling at x
  - Cost of new equipment + maintenance costs - sell price - profits

G(t) = optimal business costs from t to t_{max} (Buying new equipment at t).

0.1 Trivial case

$G(t_{max}) = 0$

- From instant t_{max} to instant t_{max}
- We don't buy any equipment

0.2 Optimization

If new equipment is bought at t we can sell it and buy new equipment at either $t + 1$, $t + 2$, ..., or $t + t_{span}$. We should sell at the point where we get the least operation cost given the project term.

0.3 Bellman Equation

Knowing this, we can establish the Bellman equation:

$$G(t) = \min\{C_{tx} + G(x)\} \tag{1}$$

From $t = t_{max}$ until $t = 0$.

Equipment Life Cycle Costs

Year	Maintenance Cost	Resale Price	Profit
1	120	2000	80
2	180	1800	90
3	240	1600	75
4	300	1400	65
5	360	1200	55
6	420	1000	45
7	480	900	40
8	540	800	35
9	600	700	30
10	660	600	25

Problem Parameters

- **Initial Equipment Cost:** 2500
- **Project Term:** 30 years
- **Equipment Lifespan:** 10 years
- **Inflation Rate:** 2.00% per time unit
- **Note:** All costs and profits will be inflated according to the time period when they occur.

C_{tx} Calculations

(with 2.00% inflation)

Inflation Formula: Value at time t = Base Value $\times(1 + 0.0200)^t$

Equipment bought at time 0: $C_{01} = 2500 + 120 \times (1 + 0.0200)^1 - 2000 \times (1 + 0.0200)^1 - 80 \times (1 + 0.0200)^1 = 500$

$C_{02} = 2500 + 120 \times (1 + 0.0200)^1 + 180 \times (1 + 0.0200)^2 - 1800 \times (1 + 0.0200)^2 - 80 \times (1 + 0.0200)^1 - 90 \times (1 + 0.0200)^2 = 760$

$C_{03} = 2500 + 120 \times (1 + 0.0200)^1 + 180 \times (1 + 0.0200)^2 + 240 \times (1 + 0.0200)^3 - 1600 \times (1 + 0.0200)^3 - 80 \times (1 + 0.0200)^1 - 90 \times (1 + 0.0200)^2 - 75 \times (1 + 0.0200)^3 = 1109$

$C_{04} = 2500 + 120 \times (1 + 0.0200)^1 + 180 \times (1 + 0.0200)^2 + 240 \times (1 + 0.0200)^3 + 300 \times (1 + 0.0200)^4 - 1400 \times (1 + 0.0200)^4 - 80 \times (1 + 0.0200)^1 - 90 \times (1 + 0.0200)^2 - 75 \times (1 + 0.0200)^3 - 65 \times (1 + 0.0200)^4 = 1544$

$C_{05} = 2500 + 120 \times (1 + 0.0200)^1 + 180 \times (1 + 0.0200)^2 + 240 \times (1 + 0.0200)^3 + 300 \times (1 + 0.0200)^4 + 360 \times (1 + 0.0200)^5 - 1200 \times (1 + 0.0200)^5 - 80 \times (1 + 0.0200)^1 - 90 \times (1 + 0.0200)^2 - 75 \times (1 + 0.0200)^3 - 65 \times (1 + 0.0200)^4 - 55 \times (1 + 0.0200)^5 = 2071$

$C_{06} = 2500 + 120 \times (1 + 0.0200)^1 + 180 \times (1 + 0.0200)^2 + 240 \times (1 + 0.0200)^3 + 300 \times (1 + 0.0200)^4 + 360 \times (1 + 0.0200)^5 + 420 \times (1 + 0.0200)^6 - 1000 \times (1 + 0.0200)^6 - 80 \times (1 + 0.0200)^1 - 90 \times (1 + 0.0200)^2 - 75 \times (1 + 0.0200)^3 - 65 \times (1 + 0.0200)^4 - 55 \times (1 + 0.0200)^5 - 45 \times (1 + 0.0200)^6 = 2690$

$C_{07} = 2500 + 120 \times (1 + 0.0200)^1 + 180 \times (1 + 0.0200)^2 + 240 \times (1 + 0.0200)^3 + 300 \times (1 + 0.0200)^4 + 360 \times (1 + 0.0200)^5 + 420 \times (1 + 0.0200)^6 + 480 \times (1 + 0.0200)^7 - 900 \times$

$(1+0.0200)^7 - 80 \times (1+0.0200)^1 - 90 \times (1+0.0200)^2 - 75 \times (1+0.0200)^3 - 65 \times (1+0.0200)^4 - 55 \times (1+0.0200)^5 - 45 \times (1+0.0200)^6 - 40 \times (1+0.0200)^7 = 3288$

$C_{08} = 2500 + 120 \times (1+0.0200)^1 + 180 \times (1+0.0200)^2 + 240 \times (1+0.0200)^3 + 300 \times (1+0.0200)^4 + 360 \times (1+0.0200)^5 + 420 \times (1+0.0200)^6 + 480 \times (1+0.0200)^7 + 540 \times (1+0.0200)^8 - 800 \times (1+0.0200)^8 - 80 \times (1+0.0200)^1 - 90 \times (1+0.0200)^2 - 75 \times (1+0.0200)^3 - 65 \times (1+0.0200)^4 - 55 \times (1+0.0200)^5 - 45 \times (1+0.0200)^6 - 40 \times (1+0.0200)^7 - 35 \times (1+0.0200)^8 = 3974$

$C_{09} = 2500 + 120 \times (1+0.0200)^1 + 180 \times (1+0.0200)^2 + 240 \times (1+0.0200)^3 + 300 \times (1+0.0200)^4 + 360 \times (1+0.0200)^5 + 420 \times (1+0.0200)^6 + 480 \times (1+0.0200)^7 + 540 \times (1+0.0200)^8 + 600 \times (1+0.0200)^9 - 700 \times (1+0.0200)^9 - 80 \times (1+0.0200)^1 - 90 \times (1+0.0200)^2 - 75 \times (1+0.0200)^3 - 65 \times (1+0.0200)^4 - 55 \times (1+0.0200)^5 - 45 \times (1+0.0200)^6 - 40 \times (1+0.0200)^7 - 35 \times (1+0.0200)^8 - 30 \times (1+0.0200)^9 = 4756$

$C_{010} = 2500 + 120 \times (1+0.0200)^1 + 180 \times (1+0.0200)^2 + 240 \times (1+0.0200)^3 + 300 \times (1+0.0200)^4 + 360 \times (1+0.0200)^5 + 420 \times (1+0.0200)^6 + 480 \times (1+0.0200)^7 + 540 \times (1+0.0200)^8 + 600 \times (1+0.0200)^9 + 660 \times (1+0.0200)^{10} - 600 \times (1+0.0200)^{10} - 80 \times (1+0.0200)^1 - 90 \times (1+0.0200)^2 - 75 \times (1+0.0200)^3 - 65 \times (1+0.0200)^4 - 55 \times (1+0.0200)^5 - 45 \times (1+0.0200)^6 - 40 \times (1+0.0200)^7 - 35 \times (1+0.0200)^8 - 30 \times (1+0.0200)^9 - 25 \times (1+0.0200)^{10} = 5634$

Equipment bought at time 1: $C_{12} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 - 2000 \times (1+0.0200)^2 - 80 \times (1+0.0200)^2 = 509$

$C_{13} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 - 1800 \times (1+0.0200)^3 - 80 \times (1+0.0200)^2 - 90 \times (1+0.0200)^3 = 774$

$C_{14} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 + 240 \times (1+0.0200)^4 - 1600 \times (1+0.0200)^4 - 80 \times (1+0.0200)^2 - 90 \times (1+0.0200)^3 - 75 \times (1+0.0200)^4 = 1130$

$C_{15} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 + 240 \times (1+0.0200)^4 + 300 \times (1+0.0200)^5 - 1400 \times (1+0.0200)^5 - 80 \times (1+0.0200)^2 - 90 \times (1+0.0200)^3 - 75 \times (1+0.0200)^4 - 65 \times (1+0.0200)^5 = 1575$

$C_{16} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 + 240 \times (1+0.0200)^4 + 300 \times (1+0.0200)^5 + 360 \times (1+0.0200)^6 - 1200 \times (1+0.0200)^6 - 80 \times (1+0.0200)^2 - 90 \times (1+0.0200)^3 - 75 \times (1+0.0200)^4 - 65 \times (1+0.0200)^5 - 55 \times (1+0.0200)^6 = 2112$

$C_{17} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 + 240 \times (1+0.0200)^4 + 300 \times (1+0.0200)^5 + 360 \times (1+0.0200)^6 + 420 \times (1+0.0200)^7 - 1000 \times (1+0.0200)^7 - 80 \times (1+0.0200)^2 - 90 \times (1+0.0200)^3 - 75 \times (1+0.0200)^4 - 65 \times (1+0.0200)^5 - 55 \times (1+0.0200)^6 - 45 \times (1+0.0200)^7 = 2745$

$C_{18} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 + 240 \times (1+0.0200)^4 + 300 \times (1+0.0200)^5 + 360 \times (1+0.0200)^6 + 420 \times (1+0.0200)^7 + 480 \times (1+0.0200)^8 - 900 \times (1+0.0200)^8 - 80 \times (1+0.0200)^2 - 90 \times (1+0.0200)^3 - 75 \times (1+0.0200)^4 - 65 \times (1+0.0200)^5 - 55 \times (1+0.0200)^6 - 45 \times (1+0.0200)^7 - 40 \times (1+0.0200)^8 = 3354$

$C_{19} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 + 240 \times (1+0.0200)^4 + 300 \times (1+0.0200)^5 + 360 \times (1+0.0200)^6 + 420 \times (1+0.0200)^7 + 480 \times (1+0.0200)^8 + 540 \times (1+0.0200)^9 - 800 \times (1+0.0200)^9 - 80 \times (1+0.0200)^2 - 90 \times (1+0.0200)^3 - 75 \times (1+0.0200)^4 - 65 \times (1+0.0200)^5 - 55 \times (1+0.0200)^6 - 45 \times (1+0.0200)^7 - 40 \times (1+0.0200)^8 - 35 \times (1+0.0200)^9 = 4055$

$C_{110} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 + 240 \times (1+0.0200)^4 + 300 \times (1+0.0200)^5 + 360 \times (1+0.0200)^6 + 420 \times (1+0.0200)^7 + 480 \times (1+0.0200)^8 + 540 \times (1+0.0200)^9 + 600 \times (1+0.0200)^{10} - 700 \times (1+0.0200)^{10} - 80 \times (1+0.0200)^2 - 90 \times (1+0.0200)^3 - 75 \times (1+0.0200)^4 - 65 \times (1+0.0200)^5 - 55 \times (1+0.0200)^6 - 45 \times (1+0.0200)^7 - 40 \times (1+0.0200)^8 - 35 \times (1+0.0200)^9 - 30 \times (1+0.0200)^{10} = 4852$

$C_{111} = 2500 \times (1+0.0200)^1 + 120 \times (1+0.0200)^2 + 180 \times (1+0.0200)^3 + 240 \times (1+0.0200)^4 + 300 \times (1+0.0200)^5 + 360 \times (1+0.0200)^6 + 420 \times (1+0.0200)^7 + 480 \times (1+0.0200)^8 + 540 \times (1+$

$0.0200)^9+600\times(1+0.0200)^{10}+660\times(1+0.0200)^{11}-600\times(1+0.0200)^{11}-80\times(1+0.0200)^2-90\times(1+0.0200)^3-75\times(1+0.0200)^4-65\times(1+0.0200)^5-55\times(1+0.0200)^6-45\times(1+0.0200)^7-40\times(1+0.0200)^8-35\times(1+0.0200)^9-30\times(1+0.0200)^{10}-25\times(1+0.0200)^{11}=5747$

Equipment bought at time 2: $C_{23}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3-2000\times(1+0.0200)^3-80\times(1+0.0200)^3=520$

$C_{24}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4-1800\times(1+0.0200)^4-80\times(1+0.0200)^3-90\times(1+0.0200)^4=790$

$C_{25}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4+240\times(1+0.0200)^5-1600\times(1+0.0200)^5-80\times(1+0.0200)^3-90\times(1+0.0200)^4-75\times(1+0.0200)^5=1153$

$C_{26}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4+240\times(1+0.0200)^5+300\times(1+0.0200)^6-1400\times(1+0.0200)^6-80\times(1+0.0200)^3-90\times(1+0.0200)^4-75\times(1+0.0200)^5-65\times(1+0.0200)^6=1606$

$C_{27}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4+240\times(1+0.0200)^5+300\times(1+0.0200)^6+360\times(1+0.0200)^7-1200\times(1+0.0200)^7-80\times(1+0.0200)^3-90\times(1+0.0200)^4-75\times(1+0.0200)^5-65\times(1+0.0200)^6-55\times(1+0.0200)^7=2153$

$C_{28}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4+240\times(1+0.0200)^5+300\times(1+0.0200)^6+360\times(1+0.0200)^7+420\times(1+0.0200)^8-1000\times(1+0.0200)^8-80\times(1+0.0200)^3-90\times(1+0.0200)^4-75\times(1+0.0200)^5-65\times(1+0.0200)^6-55\times(1+0.0200)^7-45\times(1+0.0200)^8=2799$

$C_{29}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4+240\times(1+0.0200)^5+300\times(1+0.0200)^6+360\times(1+0.0200)^7+420\times(1+0.0200)^8+480\times(1+0.0200)^9-900\times(1+0.0200)^9-80\times(1+0.0200)^3-90\times(1+0.0200)^4-75\times(1+0.0200)^5-65\times(1+0.0200)^6-55\times(1+0.0200)^7-45\times(1+0.0200)^8-40\times(1+0.0200)^9=3420$

$C_{210}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4+240\times(1+0.0200)^5+300\times(1+0.0200)^6+360\times(1+0.0200)^7+420\times(1+0.0200)^8+480\times(1+0.0200)^9+540\times(1+0.0200)^{10}-800\times(1+0.0200)^{10}-80\times(1+0.0200)^3-90\times(1+0.0200)^4-75\times(1+0.0200)^5-65\times(1+0.0200)^6-55\times(1+0.0200)^7-45\times(1+0.0200)^8-40\times(1+0.0200)^9-35\times(1+0.0200)^{10}=4135$

$C_{211}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4+240\times(1+0.0200)^5+300\times(1+0.0200)^6+360\times(1+0.0200)^7+420\times(1+0.0200)^8+480\times(1+0.0200)^9+540\times(1+0.0200)^{10}+600\times(1+0.0200)^{11}-700\times(1+0.0200)^{11}-80\times(1+0.0200)^3-90\times(1+0.0200)^4-75\times(1+0.0200)^5-65\times(1+0.0200)^6-55\times(1+0.0200)^7-45\times(1+0.0200)^8-40\times(1+0.0200)^9-35\times(1+0.0200)^{10}-30\times(1+0.0200)^{11}=4948$

$C_{212}=2500\times(1+0.0200)^2+120\times(1+0.0200)^3+180\times(1+0.0200)^4+240\times(1+0.0200)^5+300\times(1+0.0200)^6+360\times(1+0.0200)^7+420\times(1+0.0200)^8+480\times(1+0.0200)^9+540\times(1+0.0200)^{10}+600\times(1+0.0200)^{11}+660\times(1+0.0200)^{12}-600\times(1+0.0200)^{12}-80\times(1+0.0200)^3-90\times(1+0.0200)^4-75\times(1+0.0200)^5-65\times(1+0.0200)^6-55\times(1+0.0200)^7-45\times(1+0.0200)^8-40\times(1+0.0200)^9-35\times(1+0.0200)^{10}-30\times(1+0.0200)^{11}-25\times(1+0.0200)^{12}=5863$

Equipment bought at time 3: $C_{34}=2500\times(1+0.0200)^3+120\times(1+0.0200)^4-2000\times(1+0.0200)^4-80\times(1+0.0200)^4=530$

$C_{35}=2500\times(1+0.0200)^3+120\times(1+0.0200)^4+180\times(1+0.0200)^5-1800\times(1+0.0200)^5-80\times(1+0.0200)^4-90\times(1+0.0200)^5=805$

$C_{36}=2500\times(1+0.0200)^3+120\times(1+0.0200)^4+180\times(1+0.0200)^5+240\times(1+0.0200)^6-1600\times(1+0.0200)^6-80\times(1+0.0200)^4-90\times(1+0.0200)^5-75\times(1+0.0200)^6=1176$

$C_{37}=2500\times(1+0.0200)^3+120\times(1+0.0200)^4+180\times(1+0.0200)^5+240\times(1+0.0200)^6+300\times(1+0.0200)^7-1400\times(1+0.0200)^7-80\times(1+0.0200)^4-90\times(1+$

$0.0200)^5 - 75 \times (1 + 0.0200)^6 - 65 \times (1 + 0.0200)^7 = 1638$

$C_{38} = 2500 \times (1 + 0.0200)^3 + 120 \times (1 + 0.0200)^4 + 180 \times (1 + 0.0200)^5 + 240 \times (1 + 0.0200)^6 + 300 \times (1 + 0.0200)^7 + 360 \times (1 + 0.0200)^8 - 1200 \times (1 + 0.0200)^8 - 80 \times (1 + 0.0200)^4 - 90 \times (1 + 0.0200)^5 - 75 \times (1 + 0.0200)^6 - 65 \times (1 + 0.0200)^7 - 55 \times (1 + 0.0200)^8 = 2197$

$C_{39} = 2500 \times (1 + 0.0200)^3 + 120 \times (1 + 0.0200)^4 + 180 \times (1 + 0.0200)^5 + 240 \times (1 + 0.0200)^6 + 300 \times (1 + 0.0200)^7 + 360 \times (1 + 0.0200)^8 + 420 \times (1 + 0.0200)^9 - 1000 \times (1 + 0.0200)^9 - 80 \times (1 + 0.0200)^4 - 90 \times (1 + 0.0200)^5 - 75 \times (1 + 0.0200)^6 - 65 \times (1 + 0.0200)^7 - 55 \times (1 + 0.0200)^8 - 45 \times (1 + 0.0200)^9 = 2854$

$C_{310} = 2500 \times (1 + 0.0200)^3 + 120 \times (1 + 0.0200)^4 + 180 \times (1 + 0.0200)^5 + 240 \times (1 + 0.0200)^6 + 300 \times (1 + 0.0200)^7 + 360 \times (1 + 0.0200)^8 + 420 \times (1 + 0.0200)^9 + 480 \times (1 + 0.0200)^{10} - 900 \times (1 + 0.0200)^{10} - 80 \times (1 + 0.0200)^4 - 90 \times (1 + 0.0200)^5 - 75 \times (1 + 0.0200)^6 - 65 \times (1 + 0.0200)^7 - 55 \times (1 + 0.0200)^8 - 45 \times (1 + 0.0200)^9 - 40 \times (1 + 0.0200)^{10} = 3488$

$C_{311} = 2500 \times (1 + 0.0200)^3 + 120 \times (1 + 0.0200)^4 + 180 \times (1 + 0.0200)^5 + 240 \times (1 + 0.0200)^6 + 300 \times (1 + 0.0200)^7 + 360 \times (1 + 0.0200)^8 + 420 \times (1 + 0.0200)^9 + 480 \times (1 + 0.0200)^{10} + 540 \times (1 + 0.0200)^{11} - 800 \times (1 + 0.0200)^{11} - 80 \times (1 + 0.0200)^4 - 90 \times (1 + 0.0200)^5 - 75 \times (1 + 0.0200)^6 - 65 \times (1 + 0.0200)^7 - 55 \times (1 + 0.0200)^8 - 45 \times (1 + 0.0200)^9 - 40 \times (1 + 0.0200)^{10} - 35 \times (1 + 0.0200)^{11} = 4218$

$C_{312} = 2500 \times (1 + 0.0200)^3 + 120 \times (1 + 0.0200)^4 + 180 \times (1 + 0.0200)^5 + 240 \times (1 + 0.0200)^6 + 300 \times (1 + 0.0200)^7 + 360 \times (1 + 0.0200)^8 + 420 \times (1 + 0.0200)^9 + 480 \times (1 + 0.0200)^{10} + 540 \times (1 + 0.0200)^{11} + 600 \times (1 + 0.0200)^{12} - 700 \times (1 + 0.0200)^{12} - 80 \times (1 + 0.0200)^4 - 90 \times (1 + 0.0200)^5 - 75 \times (1 + 0.0200)^6 - 65 \times (1 + 0.0200)^7 - 55 \times (1 + 0.0200)^8 - 45 \times (1 + 0.0200)^9 - 40 \times (1 + 0.0200)^{10} - 35 \times (1 + 0.0200)^{11} - 30 \times (1 + 0.0200)^{12} = 5046$

$C_{313} = 2500 \times (1 + 0.0200)^3 + 120 \times (1 + 0.0200)^4 + 180 \times (1 + 0.0200)^5 + 240 \times (1 + 0.0200)^6 + 300 \times (1 + 0.0200)^7 + 360 \times (1 + 0.0200)^8 + 420 \times (1 + 0.0200)^9 + 480 \times (1 + 0.0200)^{10} + 540 \times (1 + 0.0200)^{11} + 600 \times (1 + 0.0200)^{12} + 660 \times (1 + 0.0200)^{13} - 600 \times (1 + 0.0200)^{13} - 80 \times (1 + 0.0200)^4 - 90 \times (1 + 0.0200)^5 - 75 \times (1 + 0.0200)^6 - 65 \times (1 + 0.0200)^7 - 55 \times (1 + 0.0200)^8 - 45 \times (1 + 0.0200)^9 - 40 \times (1 + 0.0200)^{10} - 35 \times (1 + 0.0200)^{11} - 30 \times (1 + 0.0200)^{12} - 25 \times (1 + 0.0200)^{13} = 5977$

Equipment bought at time 4: $C_{45} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 - 2000 \times (1 + 0.0200)^5 - 80 \times (1 + 0.0200)^5 = 540$

$C_{46} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 - 1800 \times (1 + 0.0200)^6 - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 = 821$

$C_{47} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 + 240 \times (1 + 0.0200)^7 - 1600 \times (1 + 0.0200)^7 - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 - 75 \times (1 + 0.0200)^7 = 1199$

$C_{48} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 + 240 \times (1 + 0.0200)^7 + 300 \times (1 + 0.0200)^8 - 1400 \times (1 + 0.0200)^8 - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 - 75 \times (1 + 0.0200)^7 - 65 \times (1 + 0.0200)^8 = 1670$

$C_{49} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 + 240 \times (1 + 0.0200)^7 + 300 \times (1 + 0.0200)^8 + 360 \times (1 + 0.0200)^9 - 1200 \times (1 + 0.0200)^9 - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 - 75 \times (1 + 0.0200)^7 - 65 \times (1 + 0.0200)^8 - 55 \times (1 + 0.0200)^9 = 2240$

$C_{410} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 + 240 \times (1 + 0.0200)^7 + 300 \times (1 + 0.0200)^8 + 360 \times (1 + 0.0200)^9 + 420 \times (1 + 0.0200)^{10} - 1000 \times (1 + 0.0200)^{10} - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 - 75 \times (1 + 0.0200)^7 - 65 \times (1 + 0.0200)^8 - 55 \times (1 + 0.0200)^9 - 45 \times (1 + 0.0200)^{10} = 2912$

$C_{411} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 + 240 \times (1 + 0.0200)^7 + 300 \times (1 + 0.0200)^8 + 360 \times (1 + 0.0200)^9 + 420 \times (1 + 0.0200)^{10} + 480 \times (1 + 0.0200)^{11} - 900 \times (1 + 0.0200)^{11} - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 - 75 \times (1 + 0.0200)^7 - 65 \times (1 + 0.0200)^8 - 55 \times (1 + 0.0200)^9 - 45 \times (1 + 0.0200)^{10} - 40 \times (1 + 0.0200)^{11} = 3557$

$C_{412} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 + 240 \times (1 + 0.0200)^7 + 300 \times (1 + 0.0200)^8 + 360 \times (1 + 0.0200)^9 + 420 \times (1 + 0.0200)^{10} + 480 \times (1 + 0.0200)^{11} + 540 \times (1 + 0.0200)^{12} - 800 \times (1 + 0.0200)^{12} - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 - 75 \times (1 + 0.0200)^7 - 65 \times (1 + 0.0200)^8 - 55 \times (1 + 0.0200)^9 - 45 \times (1 + 0.0200)^{10} - 40 \times (1 + 0.0200)^{11} - 35 \times (1 + 0.0200)^{12} = 4301$

$C_{413} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 + 240 \times (1 + 0.0200)^7 + 300 \times (1 + 0.0200)^8 + 360 \times (1 + 0.0200)^9 + 420 \times (1 + 0.0200)^{10} + 480 \times (1 + 0.0200)^{11} + 540 \times (1 + 0.0200)^{12} + 600 \times (1 + 0.0200)^{13} - 700 \times (1 + 0.0200)^{13} - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 - 75 \times (1 + 0.0200)^7 - 65 \times (1 + 0.0200)^8 - 55 \times (1 + 0.0200)^9 - 45 \times (1 + 0.0200)^{10} - 40 \times (1 + 0.0200)^{11} - 35 \times (1 + 0.0200)^{12} - 30 \times (1 + 0.0200)^{13} = 5147$

$C_{414} = 2500 \times (1 + 0.0200)^4 + 120 \times (1 + 0.0200)^5 + 180 \times (1 + 0.0200)^6 + 240 \times (1 + 0.0200)^7 + 300 \times (1 + 0.0200)^8 + 360 \times (1 + 0.0200)^9 + 420 \times (1 + 0.0200)^{10} + 480 \times (1 + 0.0200)^{11} + 540 \times (1 + 0.0200)^{12} + 600 \times (1 + 0.0200)^{13} + 660 \times (1 + 0.0200)^{14} - 600 \times (1 + 0.0200)^{14} - 80 \times (1 + 0.0200)^5 - 90 \times (1 + 0.0200)^6 - 75 \times (1 + 0.0200)^7 - 65 \times (1 + 0.0200)^8 - 55 \times (1 + 0.0200)^9 - 45 \times (1 + 0.0200)^{10} - 40 \times (1 + 0.0200)^{11} - 35 \times (1 + 0.0200)^{12} - 30 \times (1 + 0.0200)^{13} - 25 \times (1 + 0.0200)^{14} = 6098$

Equipment bought at time 5: $C_{56} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 - 2000 \times (1 + 0.0200)^6 - 80 \times (1 + 0.0200)^6 = 551$

$C_{57} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 - 1800 \times (1 + 0.0200)^7 - 80 \times (1 + 0.0200)^6 - 90 \times (1 + 0.0200)^7 = 838$

$C_{58} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 + 240 \times (1 + 0.0200)^8 - 1600 \times (1 + 0.0200)^8 - 80 \times (1 + 0.0200)^6 - 90 \times (1 + 0.0200)^7 - 75 \times (1 + 0.0200)^8 = 1224$

$C_{59} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 + 240 \times (1 + 0.0200)^8 + 300 \times (1 + 0.0200)^9 - 1400 \times (1 + 0.0200)^9 - 80 \times (1 + 0.0200)^6 - 90 \times (1 + 0.0200)^7 - 75 \times (1 + 0.0200)^8 - 65 \times (1 + 0.0200)^9 = 1705$

$C_{510} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 + 240 \times (1 + 0.0200)^8 + 300 \times (1 + 0.0200)^9 + 360 \times (1 + 0.0200)^{10} - 1200 \times (1 + 0.0200)^{10} - 80 \times (1 + 0.0200)^6 - 90 \times (1 + 0.0200)^7 - 75 \times (1 + 0.0200)^8 - 65 \times (1 + 0.0200)^9 - 55 \times (1 + 0.0200)^{10} = 2286$

$C_{511} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 + 240 \times (1 + 0.0200)^8 + 300 \times (1 + 0.0200)^9 + 360 \times (1 + 0.0200)^{10} + 420 \times (1 + 0.0200)^{11} - 1000 \times (1 + 0.0200)^{11} - 80 \times (1 + 0.0200)^6 - 90 \times (1 + 0.0200)^7 - 75 \times (1 + 0.0200)^8 - 65 \times (1 + 0.0200)^9 - 55 \times (1 + 0.0200)^{10} - 45 \times (1 + 0.0200)^{11} = 2971$

$C_{512} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 + 240 \times (1 + 0.0200)^8 + 300 \times (1 + 0.0200)^9 + 360 \times (1 + 0.0200)^{10} + 420 \times (1 + 0.0200)^{11} + 480 \times (1 + 0.0200)^{12} - 900 \times (1 + 0.0200)^{12} - 80 \times (1 + 0.0200)^6 - 90 \times (1 + 0.0200)^7 - 75 \times (1 + 0.0200)^8 - 65 \times (1 + 0.0200)^9 - 55 \times (1 + 0.0200)^{10} - 45 \times (1 + 0.0200)^{11} - 40 \times (1 + 0.0200)^{12} = 3630$

$C_{513} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 + 240 \times (1 + 0.0200)^8 + 300 \times (1 + 0.0200)^9 + 360 \times (1 + 0.0200)^{10} + 420 \times (1 + 0.0200)^{11} + 480 \times (1 + 0.0200)^{12} + 540 \times (1 + 0.0200)^{13} - 800 \times (1 + 0.0200)^{13} - 80 \times (1 + 0.0200)^6 - 90 \times (1 + 0.0200)^7 - 75 \times (1 + 0.0200)^8 - 65 \times (1 + 0.0200)^9 - 55 \times (1 + 0.0200)^{10} - 45 \times (1 + 0.0200)^{11} - 40 \times (1 + 0.0200)^{12} - 35 \times (1 + 0.0200)^{13} = 4389$

$C_{514} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 + 240 \times (1 + 0.0200)^8 + 300 \times (1 + 0.0200)^9 + 360 \times (1 + 0.0200)^{10} + 420 \times (1 + 0.0200)^{11} + 480 \times (1 + 0.0200)^{12} + 540 \times (1 + 0.0200)^{13} + 600 \times (1 + 0.0200)^{14} - 700 \times (1 + 0.0200)^{14} - 80 \times (1 + 0.0200)^6 - 90 \times (1 + 0.0200)^7 - 75 \times (1 + 0.0200)^8 - 65 \times (1 + 0.0200)^9 - 55 \times (1 + 0.0200)^{10} - 45 \times (1 + 0.0200)^{11} - 40 \times (1 + 0.0200)^{12} - 35 \times (1 + 0.0200)^{13} - 30 \times (1 + 0.0200)^{14} = 5251$

$C_{515} = 2500 \times (1 + 0.0200)^5 + 120 \times (1 + 0.0200)^6 + 180 \times (1 + 0.0200)^7 + 240 \times (1 + 0.0200)^8 + 300 \times (1 + 0.0200)^9 + 360 \times (1 + 0.0200)^{10} + 420 \times (1 + 0.0200)^{11} + 480 \times (1 +$

$0.0200)^{12} + 540 \times (1 + 0.0200)^{13} + 600 \times (1 + 0.0200)^{14} + 660 \times (1 + 0.0200)^{15} - 600 \times (1 + 0.0200)^{15} - 80 \times (1 + 0.0200)^{6} - 90 \times (1 + 0.0200)^{7} - 75 \times (1 + 0.0200)^{8} - 65 \times (1 + 0.0200)^{9} - 55 \times (1 + 0.0200)^{10} - 45 \times (1 + 0.0200)^{11} - 40 \times (1 + 0.0200)^{12} - 35 \times (1 + 0.0200)^{13} - 30 \times (1 + 0.0200)^{14} - 25 \times (1 + 0.0200)^{15} = 6221$

Equipment bought at time 6: $C_{67} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} - 2000 \times (1 + 0.0200)^{7} - 80 \times (1 + 0.0200)^{7} = 562$

$C_{68} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} - 1800 \times (1 + 0.0200)^{8} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} = 855$

$C_{69} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} + 240 \times (1 + 0.0200)^{9} - 1600 \times (1 + 0.0200)^{9} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} - 75 \times (1 + 0.0200)^{9} = 1247$

$C_{610} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} + 240 \times (1 + 0.0200)^{9} + 300 \times (1 + 0.0200)^{10} - 1400 \times (1 + 0.0200)^{10} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} - 75 \times (1 + 0.0200)^{9} - 65 \times (1 + 0.0200)^{10} = 1738$

$C_{611} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} + 240 \times (1 + 0.0200)^{9} + 300 \times (1 + 0.0200)^{10} + 360 \times (1 + 0.0200)^{11} - 1200 \times (1 + 0.0200)^{11} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} - 75 \times (1 + 0.0200)^{9} - 65 \times (1 + 0.0200)^{10} - 55 \times (1 + 0.0200)^{11} = 2330$

$C_{612} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} + 240 \times (1 + 0.0200)^{9} + 300 \times (1 + 0.0200)^{10} + 360 \times (1 + 0.0200)^{11} + 420 \times (1 + 0.0200)^{12} - 1000 \times (1 + 0.0200)^{12} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} - 75 \times (1 + 0.0200)^{9} - 65 \times (1 + 0.0200)^{10} - 55 \times (1 + 0.0200)^{11} - 45 \times (1 + 0.0200)^{12} = 3028$

$C_{613} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} + 240 \times (1 + 0.0200)^{9} + 300 \times (1 + 0.0200)^{10} + 360 \times (1 + 0.0200)^{11} + 420 \times (1 + 0.0200)^{12} + 480 \times (1 + 0.0200)^{13} - 900 \times (1 + 0.0200)^{13} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} - 75 \times (1 + 0.0200)^{9} - 65 \times (1 + 0.0200)^{10} - 55 \times (1 + 0.0200)^{11} - 45 \times (1 + 0.0200)^{12} - 40 \times (1 + 0.0200)^{13} = 3700$

$C_{614} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} + 240 \times (1 + 0.0200)^{9} + 300 \times (1 + 0.0200)^{10} + 360 \times (1 + 0.0200)^{11} + 420 \times (1 + 0.0200)^{12} + 480 \times (1 + 0.0200)^{13} + 540 \times (1 + 0.0200)^{14} - 800 \times (1 + 0.0200)^{14} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} - 75 \times (1 + 0.0200)^{9} - 65 \times (1 + 0.0200)^{10} - 55 \times (1 + 0.0200)^{11} - 45 \times (1 + 0.0200)^{12} - 40 \times (1 + 0.0200)^{13} - 35 \times (1 + 0.0200)^{14} = 4474$

$C_{615} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} + 240 \times (1 + 0.0200)^{9} + 300 \times (1 + 0.0200)^{10} + 360 \times (1 + 0.0200)^{11} + 420 \times (1 + 0.0200)^{12} + 480 \times (1 + 0.0200)^{13} + 540 \times (1 + 0.0200)^{14} + 600 \times (1 + 0.0200)^{15} - 700 \times (1 + 0.0200)^{15} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} - 75 \times (1 + 0.0200)^{9} - 65 \times (1 + 0.0200)^{10} - 55 \times (1 + 0.0200)^{11} - 45 \times (1 + 0.0200)^{12} - 40 \times (1 + 0.0200)^{13} - 35 \times (1 + 0.0200)^{14} - 30 \times (1 + 0.0200)^{15} = 5353$

$C_{616} = 2500 \times (1 + 0.0200)^{6} + 120 \times (1 + 0.0200)^{7} + 180 \times (1 + 0.0200)^{8} + 240 \times (1 + 0.0200)^{9} + 300 \times (1 + 0.0200)^{10} + 360 \times (1 + 0.0200)^{11} + 420 \times (1 + 0.0200)^{12} + 480 \times (1 + 0.0200)^{13} + 540 \times (1 + 0.0200)^{14} + 600 \times (1 + 0.0200)^{15} + 660 \times (1 + 0.0200)^{16} - 600 \times (1 + 0.0200)^{16} - 80 \times (1 + 0.0200)^{7} - 90 \times (1 + 0.0200)^{8} - 75 \times (1 + 0.0200)^{9} - 65 \times (1 + 0.0200)^{10} - 55 \times (1 + 0.0200)^{11} - 45 \times (1 + 0.0200)^{12} - 40 \times (1 + 0.0200)^{13} - 35 \times (1 + 0.0200)^{14} - 30 \times (1 + 0.0200)^{15} - 25 \times (1 + 0.0200)^{16} = 6343$

Equipment bought at time 7: $C_{78} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} - 2000 \times (1 + 0.0200)^{8} - 80 \times (1 + 0.0200)^{8} = 573$

$C_{79} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} - 1800 \times (1 + 0.0200)^{9} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} = 872$

$C_{710} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} + 240 \times (1 + 0.0200)^{10} - 1600 \times (1 + 0.0200)^{10} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} - 75 \times (1 + 0.0200)^{10} = 1273$

$C_{711} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} + 240 \times (1 +$

$0.0200)^{10} + 300 \times (1 + 0.0200)^{11} - 1400 \times (1 + 0.0200)^{11} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} - 75 \times (1 + 0.0200)^{10} - 65 \times (1 + 0.0200)^{11} = 1775$

$C_{712} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} + 240 \times (1 + 0.0200)^{10} + 300 \times (1 + 0.0200)^{11} + 360 \times (1 + 0.0200)^{12} - 1200 \times (1 + 0.0200)^{12} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} - 75 \times (1 + 0.0200)^{10} - 65 \times (1 + 0.0200)^{11} - 55 \times (1 + 0.0200)^{12} = 2380$

$C_{713} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} + 240 \times (1 + 0.0200)^{10} + 300 \times (1 + 0.0200)^{11} + 360 \times (1 + 0.0200)^{12} + 420 \times (1 + 0.0200)^{13} - 1000 \times (1 + 0.0200)^{13} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} - 75 \times (1 + 0.0200)^{10} - 65 \times (1 + 0.0200)^{11} - 55 \times (1 + 0.0200)^{12} - 45 \times (1 + 0.0200)^{13} = 3092$

$C_{714} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} + 240 \times (1 + 0.0200)^{10} + 300 \times (1 + 0.0200)^{11} + 360 \times (1 + 0.0200)^{12} + 420 \times (1 + 0.0200)^{13} + 480 \times (1 + 0.0200)^{14} - 900 \times (1 + 0.0200)^{14} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} - 75 \times (1 + 0.0200)^{10} - 65 \times (1 + 0.0200)^{11} - 55 \times (1 + 0.0200)^{12} - 45 \times (1 + 0.0200)^{13} - 40 \times (1 + 0.0200)^{14} = 3778$

$C_{715} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} + 240 \times (1 + 0.0200)^{10} + 300 \times (1 + 0.0200)^{11} + 360 \times (1 + 0.0200)^{12} + 420 \times (1 + 0.0200)^{13} + 480 \times (1 + 0.0200)^{14} + 540 \times (1 + 0.0200)^{15} - 800 \times (1 + 0.0200)^{15} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} - 75 \times (1 + 0.0200)^{10} - 65 \times (1 + 0.0200)^{11} - 55 \times (1 + 0.0200)^{12} - 45 \times (1 + 0.0200)^{13} - 40 \times (1 + 0.0200)^{14} - 35 \times (1 + 0.0200)^{15} = 4567$

$C_{716} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} + 240 \times (1 + 0.0200)^{10} + 300 \times (1 + 0.0200)^{11} + 360 \times (1 + 0.0200)^{12} + 420 \times (1 + 0.0200)^{13} + 480 \times (1 + 0.0200)^{14} + 540 \times (1 + 0.0200)^{15} + 600 \times (1 + 0.0200)^{16} - 700 \times (1 + 0.0200)^{16} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} - 75 \times (1 + 0.0200)^{10} - 65 \times (1 + 0.0200)^{11} - 55 \times (1 + 0.0200)^{12} - 45 \times (1 + 0.0200)^{13} - 40 \times (1 + 0.0200)^{14} - 35 \times (1 + 0.0200)^{15} - 30 \times (1 + 0.0200)^{16} = 5464$

$C_{717} = 2500 \times (1 + 0.0200)^{7} + 120 \times (1 + 0.0200)^{8} + 180 \times (1 + 0.0200)^{9} + 240 \times (1 + 0.0200)^{10} + 300 \times (1 + 0.0200)^{11} + 360 \times (1 + 0.0200)^{12} + 420 \times (1 + 0.0200)^{13} + 480 \times (1 + 0.0200)^{14} + 540 \times (1 + 0.0200)^{15} + 600 \times (1 + 0.0200)^{16} + 660 \times (1 + 0.0200)^{17} - 600 \times (1 + 0.0200)^{17} - 80 \times (1 + 0.0200)^{8} - 90 \times (1 + 0.0200)^{9} - 75 \times (1 + 0.0200)^{10} - 65 \times (1 + 0.0200)^{11} - 55 \times (1 + 0.0200)^{12} - 45 \times (1 + 0.0200)^{13} - 40 \times (1 + 0.0200)^{14} - 35 \times (1 + 0.0200)^{15} - 30 \times (1 + 0.0200)^{16} - 25 \times (1 + 0.0200)^{17} = 6472$

Equipment bought at time 8: $C_{89} = 2500 \times (1 + 0.0200)^{8} + 120 \times (1 + 0.0200)^{9} - 2000 \times (1 + 0.0200)^{9} - 80 \times (1 + 0.0200)^{9} = 585$

$C_{810} = 2500 \times (1 + 0.0200)^{8} + 120 \times (1 + 0.0200)^{9} + 180 \times (1 + 0.0200)^{10} - 1800 \times (1 + 0.0200)^{10} - 80 \times (1 + 0.0200)^{9} - 90 \times (1 + 0.0200)^{10} = 890$

$C_{811} = 2500 \times (1 + 0.0200)^{8} + 120 \times (1 + 0.0200)^{9} + 180 \times (1 + 0.0200)^{10} + 240 \times (1 + 0.0200)^{11} - 1600 \times (1 + 0.0200)^{11} - 80 \times (1 + 0.0200)^{9} - 90 \times (1 + 0.0200)^{10} - 75 \times (1 + 0.0200)^{11} = 1299$

$C_{812} = 2500 \times (1 + 0.0200)^{8} + 120 \times (1 + 0.0200)^{9} + 180 \times (1 + 0.0200)^{10} + 240 \times (1 + 0.0200)^{11} + 300 \times (1 + 0.0200)^{12} - 1400 \times (1 + 0.0200)^{12} - 80 \times (1 + 0.0200)^{9} - 90 \times (1 + 0.0200)^{10} - 75 \times (1 + 0.0200)^{11} - 65 \times (1 + 0.0200)^{12} = 1810$

$C_{813} = 2500 \times (1 + 0.0200)^{8} + 120 \times (1 + 0.0200)^{9} + 180 \times (1 + 0.0200)^{10} + 240 \times (1 + 0.0200)^{11} + 300 \times (1 + 0.0200)^{12} + 360 \times (1 + 0.0200)^{13} - 1200 \times (1 + 0.0200)^{13} - 80 \times (1 + 0.0200)^{9} - 90 \times (1 + 0.0200)^{10} - 75 \times (1 + 0.0200)^{11} - 65 \times (1 + 0.0200)^{12} - 55 \times (1 + 0.0200)^{13} = 2426$

$C_{814} = 2500 \times (1 + 0.0200)^{8} + 120 \times (1 + 0.0200)^{9} + 180 \times (1 + 0.0200)^{10} + 240 \times (1 + 0.0200)^{11} + 300 \times (1 + 0.0200)^{12} + 360 \times (1 + 0.0200)^{13} + 420 \times (1 + 0.0200)^{14} - 1000 \times (1 + 0.0200)^{14} - 80 \times (1 + 0.0200)^{9} - 90 \times (1 + 0.0200)^{10} - 75 \times (1 + 0.0200)^{11} - 65 \times (1 + 0.0200)^{12} - 55 \times (1 + 0.0200)^{13} - 45 \times (1 + 0.0200)^{14} = 3153$

$C_{815} = 2500 \times (1+0.0200)^8 + 120 \times (1+0.0200)^9 + 180 \times (1+0.0200)^{10} + 240 \times (1+0.0200)^{11} + 300 \times (1+0.0200)^{12} + 360 \times (1+0.0200)^{13} + 420 \times (1+0.0200)^{14} + 480 \times (1+0.0200)^{15} - 900 \times (1+0.0200)^{15} - 80 \times (1+0.0200)^9 - 90 \times (1+0.0200)^{10} - 75 \times (1+0.0200)^{11} - 65 \times (1+0.0200)^{12} - 55 \times (1+0.0200)^{13} - 45 \times (1+0.0200)^{14} - 40 \times (1+0.0200)^{15} = 3853$

$C_{816} = 2500 \times (1+0.0200)^8 + 120 \times (1+0.0200)^9 + 180 \times (1+0.0200)^{10} + 240 \times (1+0.0200)^{11} + 300 \times (1+0.0200)^{12} + 360 \times (1+0.0200)^{13} + 420 \times (1+0.0200)^{14} + 480 \times (1+0.0200)^{15} + 540 \times (1+0.0200)^{16} - 800 \times (1+0.0200)^{16} - 80 \times (1+0.0200)^9 - 90 \times (1+0.0200)^{10} - 75 \times (1+0.0200)^{11} - 65 \times (1+0.0200)^{12} - 55 \times (1+0.0200)^{13} - 45 \times (1+0.0200)^{14} - 40 \times (1+0.0200)^{15} - 35 \times (1+0.0200)^{16} = 4658$

$C_{817} = 2500 \times (1+0.0200)^8 + 120 \times (1+0.0200)^9 + 180 \times (1+0.0200)^{10} + 240 \times (1+0.0200)^{11} + 300 \times (1+0.0200)^{12} + 360 \times (1+0.0200)^{13} + 420 \times (1+0.0200)^{14} + 480 \times (1+0.0200)^{15} + 540 \times (1+0.0200)^{16} + 600 \times (1+0.0200)^{17} - 700 \times (1+0.0200)^{17} - 80 \times (1+0.0200)^9 - 90 \times (1+0.0200)^{10} - 75 \times (1+0.0200)^{11} - 65 \times (1+0.0200)^{12} - 55 \times (1+0.0200)^{13} - 45 \times (1+0.0200)^{14} - 40 \times (1+0.0200)^{15} - 35 \times (1+0.0200)^{16} - 30 \times (1+0.0200)^{17} = 5573$

$C_{818} = 2500 \times (1+0.0200)^8 + 120 \times (1+0.0200)^9 + 180 \times (1+0.0200)^{10} + 240 \times (1+0.0200)^{11} + 300 \times (1+0.0200)^{12} + 360 \times (1+0.0200)^{13} + 420 \times (1+0.0200)^{14} + 480 \times (1+0.0200)^{15} + 540 \times (1+0.0200)^{16} + 600 \times (1+0.0200)^{17} + 660 \times (1+0.0200)^{18} - 600 \times (1+0.0200)^{18} - 80 \times (1+0.0200)^9 - 90 \times (1+0.0200)^{10} - 75 \times (1+0.0200)^{11} - 65 \times (1+0.0200)^{12} - 55 \times (1+0.0200)^{13} - 45 \times (1+0.0200)^{14} - 40 \times (1+0.0200)^{15} - 35 \times (1+0.0200)^{16} - 30 \times (1+0.0200)^{17} - 25 \times (1+0.0200)^{18} = 6603$

Equipment bought at time 9: $C_{910} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} - 2000 \times (1+0.0200)^{10} - 80 \times (1+0.0200)^{10} = 597$

$C_{911} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} + 180 \times (1+0.0200)^{11} - 1800 \times (1+0.0200)^{11} - 80 \times (1+0.0200)^{10} - 90 \times (1+0.0200)^{11} = 907$

$C_{912} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} + 180 \times (1+0.0200)^{11} + 240 \times (1+0.0200)^{12} - 1600 \times (1+0.0200)^{12} - 80 \times (1+0.0200)^{10} - 90 \times (1+0.0200)^{11} - 75 \times (1+0.0200)^{12} = 1324$

$C_{913} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} + 180 \times (1+0.0200)^{11} + 240 \times (1+0.0200)^{12} + 300 \times (1+0.0200)^{13} - 1400 \times (1+0.0200)^{13} - 80 \times (1+0.0200)^{10} - 90 \times (1+0.0200)^{11} - 75 \times (1+0.0200)^{12} - 65 \times (1+0.0200)^{13} = 1845$

$C_{914} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} + 180 \times (1+0.0200)^{11} + 240 \times (1+0.0200)^{12} + 300 \times (1+0.0200)^{13} + 360 \times (1+0.0200)^{14} - 1200 \times (1+0.0200)^{14} - 80 \times (1+0.0200)^{10} - 90 \times (1+0.0200)^{11} - 75 \times (1+0.0200)^{12} - 65 \times (1+0.0200)^{13} - 55 \times (1+0.0200)^{14} = 2475$

$C_{915} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} + 180 \times (1+0.0200)^{11} + 240 \times (1+0.0200)^{12} + 300 \times (1+0.0200)^{13} + 360 \times (1+0.0200)^{14} + 420 \times (1+0.0200)^{15} - 1000 \times (1+0.0200)^{15} - 80 \times (1+0.0200)^{10} - 90 \times (1+0.0200)^{11} - 75 \times (1+0.0200)^{12} - 65 \times (1+0.0200)^{13} - 55 \times (1+0.0200)^{14} - 45 \times (1+0.0200)^{15} = 3217$

$C_{916} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} + 180 \times (1+0.0200)^{11} + 240 \times (1+0.0200)^{12} + 300 \times (1+0.0200)^{13} + 360 \times (1+0.0200)^{14} + 420 \times (1+0.0200)^{15} + 480 \times (1+0.0200)^{16} - 900 \times (1+0.0200)^{16} - 80 \times (1+0.0200)^{10} - 90 \times (1+0.0200)^{11} - 75 \times (1+0.0200)^{12} - 65 \times (1+0.0200)^{13} - 55 \times (1+0.0200)^{14} - 45 \times (1+0.0200)^{15} - 40 \times (1+0.0200)^{16} = 3930$

$C_{917} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} + 180 \times (1+0.0200)^{11} + 240 \times (1+0.0200)^{12} + 300 \times (1+0.0200)^{13} + 360 \times (1+0.0200)^{14} + 420 \times (1+0.0200)^{15} + 480 \times (1+0.0200)^{16} + 540 \times (1+0.0200)^{17} - 800 \times (1+0.0200)^{17} - 80 \times (1+0.0200)^{10} - 90 \times (1+0.0200)^{11} - 75 \times (1+0.0200)^{12} - 65 \times (1+0.0200)^{13} - 55 \times (1+0.0200)^{14} - 45 \times (1+0.0200)^{15} - 40 \times (1+0.0200)^{16} - 35 \times (1+0.0200)^{17} = 4751$

$C_{918} = 2500 \times (1+0.0200)^9 + 120 \times (1+0.0200)^{10} + 180 \times (1+0.0200)^{11} + 240 \times (1+$

$0.0200)^{12} + 300 \times (1 + 0.0200)^{13} + 360 \times (1 + 0.0200)^{14} + 420 \times (1 + 0.0200)^{15} + 480 \times (1 + 0.0200)^{16} + 540 \times (1 + 0.0200)^{17} + 600 \times (1 + 0.0200)^{18} - 700 \times (1 + 0.0200)^{18} - 80 \times (1 + 0.0200)^{10} - 90 \times (1 + 0.0200)^{11} - 75 \times (1 + 0.0200)^{12} - 65 \times (1 + 0.0200)^{13} - 55 \times (1 + 0.0200)^{14} - 45 \times (1 + 0.0200)^{15} - 40 \times (1 + 0.0200)^{16} - 35 \times (1 + 0.0200)^{17} - 30 \times (1 + 0.0200)^{18} = 5685$

$C_{919} = 2500 \times (1 + 0.0200)^{9} + 120 \times (1 + 0.0200)^{10} + 180 \times (1 + 0.0200)^{11} + 240 \times (1 + 0.0200)^{12} + 300 \times (1 + 0.0200)^{13} + 360 \times (1 + 0.0200)^{14} + 420 \times (1 + 0.0200)^{15} + 480 \times (1 + 0.0200)^{16} + 540 \times (1 + 0.0200)^{17} + 600 \times (1 + 0.0200)^{18} + 660 \times (1 + 0.0200)^{19} - 600 \times (1 + 0.0200)^{19} - 80 \times (1 + 0.0200)^{10} - 90 \times (1 + 0.0200)^{11} - 75 \times (1 + 0.0200)^{12} - 65 \times (1 + 0.0200)^{13} - 55 \times (1 + 0.0200)^{14} - 45 \times (1 + 0.0200)^{15} - 40 \times (1 + 0.0200)^{16} - 35 \times (1 + 0.0200)^{17} - 30 \times (1 + 0.0200)^{18} - 25 \times (1 + 0.0200)^{19} = 6734$

Equipment bought at time 10: $C_{1011} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} - 2000 \times (1 + 0.0200)^{11} - 80 \times (1 + 0.0200)^{11} = 609$

$C_{1012} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} - 1800 \times (1 + 0.0200)^{12} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} = 926$

$C_{1013} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} + 240 \times (1 + 0.0200)^{13} - 1600 \times (1 + 0.0200)^{13} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} - 75 \times (1 + 0.0200)^{13} = 1351$

$C_{1014} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} + 240 \times (1 + 0.0200)^{13} + 300 \times (1 + 0.0200)^{14} - 1400 \times (1 + 0.0200)^{14} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} - 75 \times (1 + 0.0200)^{13} - 65 \times (1 + 0.0200)^{14} = 1882$

$C_{1015} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} + 240 \times (1 + 0.0200)^{13} + 300 \times (1 + 0.0200)^{14} + 360 \times (1 + 0.0200)^{15} - 1200 \times (1 + 0.0200)^{15} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} - 75 \times (1 + 0.0200)^{13} - 65 \times (1 + 0.0200)^{14} - 55 \times (1 + 0.0200)^{15} = 2523$

$C_{1016} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} + 240 \times (1 + 0.0200)^{13} + 300 \times (1 + 0.0200)^{14} + 360 \times (1 + 0.0200)^{15} + 420 \times (1 + 0.0200)^{16} - 1000 \times (1 + 0.0200)^{16} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} - 75 \times (1 + 0.0200)^{13} - 65 \times (1 + 0.0200)^{14} - 55 \times (1 + 0.0200)^{15} - 45 \times (1 + 0.0200)^{16} = 3280$

$C_{1017} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} + 240 \times (1 + 0.0200)^{13} + 300 \times (1 + 0.0200)^{14} + 360 \times (1 + 0.0200)^{15} + 420 \times (1 + 0.0200)^{16} + 480 \times (1 + 0.0200)^{17} - 900 \times (1 + 0.0200)^{17} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} - 75 \times (1 + 0.0200)^{13} - 65 \times (1 + 0.0200)^{14} - 55 \times (1 + 0.0200)^{15} - 45 \times (1 + 0.0200)^{16} - 40 \times (1 + 0.0200)^{17} = 4007$

$C_{1018} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} + 240 \times (1 + 0.0200)^{13} + 300 \times (1 + 0.0200)^{14} + 360 \times (1 + 0.0200)^{15} + 420 \times (1 + 0.0200)^{16} + 480 \times (1 + 0.0200)^{17} + 540 \times (1 + 0.0200)^{18} - 800 \times (1 + 0.0200)^{18} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} - 75 \times (1 + 0.0200)^{13} - 65 \times (1 + 0.0200)^{14} - 55 \times (1 + 0.0200)^{15} - 45 \times (1 + 0.0200)^{16} - 40 \times (1 + 0.0200)^{17} - 35 \times (1 + 0.0200)^{18} = 4846$

$C_{1019} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} + 240 \times (1 + 0.0200)^{13} + 300 \times (1 + 0.0200)^{14} + 360 \times (1 + 0.0200)^{15} + 420 \times (1 + 0.0200)^{16} + 480 \times (1 + 0.0200)^{17} + 540 \times (1 + 0.0200)^{18} + 600 \times (1 + 0.0200)^{19} - 700 \times (1 + 0.0200)^{19} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} - 75 \times (1 + 0.0200)^{13} - 65 \times (1 + 0.0200)^{14} - 55 \times (1 + 0.0200)^{15} - 45 \times (1 + 0.0200)^{16} - 40 \times (1 + 0.0200)^{17} - 35 \times (1 + 0.0200)^{18} - 30 \times (1 + 0.0200)^{19} = 5799$

$C_{1020} = 2500 \times (1 + 0.0200)^{10} + 120 \times (1 + 0.0200)^{11} + 180 \times (1 + 0.0200)^{12} + 240 \times (1 + 0.0200)^{13} + 300 \times (1 + 0.0200)^{14} + 360 \times (1 + 0.0200)^{15} + 420 \times (1 + 0.0200)^{16} + 480 \times (1 + 0.0200)^{17} + 540 \times (1 + 0.0200)^{18} + 600 \times (1 + 0.0200)^{19} + 660 \times (1 + 0.0200)^{20} - 600 \times (1 + 0.0200)^{20} - 80 \times (1 + 0.0200)^{11} - 90 \times (1 + 0.0200)^{12} - 75 \times (1 + 0.0200)^{13} - 65 \times (1 + 0.0200)^{14} - 55 \times (1 + 0.0200)^{15} - 45 \times (1 + 0.0200)^{16} - 40 \times (1 + 0.0200)^{17} - 35 \times (1 + 0.0200)^{18} - 30 \times (1 + 0.0200)^{19} - 25 \times (1 + 0.0200)^{20} = 6869$

Equipment bought at time 11: $C_{1112} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}-2000\times(1+0.0200)^{12}-80\times(1+0.0200)^{12}=621$

$C_{1113} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}-1800\times(1+0.0200)^{13}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}=944$

$C_{1114} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}+240\times(1+0.0200)^{14}-1600\times(1+0.0200)^{14}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}-75\times(1+0.0200)^{14}=1378$

$C_{1115} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}+240\times(1+0.0200)^{14}+300\times(1+0.0200)^{15}-1400\times(1+0.0200)^{15}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}-75\times(1+0.0200)^{14}-65\times(1+0.0200)^{15}=1920$

$C_{1116} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}+240\times(1+0.0200)^{14}+300\times(1+0.0200)^{15}+360\times(1+0.0200)^{16}-1200\times(1+0.0200)^{16}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}-75\times(1+0.0200)^{14}-65\times(1+0.0200)^{15}-55\times(1+0.0200)^{16}=2575$

$C_{1117} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}+240\times(1+0.0200)^{14}+300\times(1+0.0200)^{15}+360\times(1+0.0200)^{16}+420\times(1+0.0200)^{17}-1000\times(1+0.0200)^{17}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}-75\times(1+0.0200)^{14}-65\times(1+0.0200)^{15}-55\times(1+0.0200)^{16}-45\times(1+0.0200)^{17}=3346$

$C_{1118} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}+240\times(1+0.0200)^{14}+300\times(1+0.0200)^{15}+360\times(1+0.0200)^{16}+420\times(1+0.0200)^{17}+480\times(1+0.0200)^{18}-900\times(1+0.0200)^{18}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}-75\times(1+0.0200)^{14}-65\times(1+0.0200)^{15}-55\times(1+0.0200)^{16}-45\times(1+0.0200)^{17}-40\times(1+0.0200)^{18}=4088$

$C_{1119} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}+240\times(1+0.0200)^{14}+300\times(1+0.0200)^{15}+360\times(1+0.0200)^{16}+420\times(1+0.0200)^{17}+480\times(1+0.0200)^{18}+540\times(1+0.0200)^{19}-800\times(1+0.0200)^{19}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}-75\times(1+0.0200)^{14}-65\times(1+0.0200)^{15}-55\times(1+0.0200)^{16}-45\times(1+0.0200)^{17}-40\times(1+0.0200)^{18}-35\times(1+0.0200)^{19}=4943$

$C_{1120} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}+240\times(1+0.0200)^{14}+300\times(1+0.0200)^{15}+360\times(1+0.0200)^{16}+420\times(1+0.0200)^{17}+480\times(1+0.0200)^{18}+540\times(1+0.0200)^{19}+600\times(1+0.0200)^{20}-700\times(1+0.0200)^{20}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}-75\times(1+0.0200)^{14}-65\times(1+0.0200)^{15}-55\times(1+0.0200)^{16}-45\times(1+0.0200)^{17}-40\times(1+0.0200)^{18}-35\times(1+0.0200)^{19}-30\times(1+0.0200)^{20}=5914$

$C_{1121} = 2500\times(1+0.0200)^{11}+120\times(1+0.0200)^{12}+180\times(1+0.0200)^{13}+240\times(1+0.0200)^{14}+300\times(1+0.0200)^{15}+360\times(1+0.0200)^{16}+420\times(1+0.0200)^{17}+480\times(1+0.0200)^{18}+540\times(1+0.0200)^{19}+600\times(1+0.0200)^{20}+660\times(1+0.0200)^{21}-600\times(1+0.0200)^{21}-80\times(1+0.0200)^{12}-90\times(1+0.0200)^{13}-75\times(1+0.0200)^{14}-65\times(1+0.0200)^{15}-55\times(1+0.0200)^{16}-45\times(1+0.0200)^{17}-40\times(1+0.0200)^{18}-35\times(1+0.0200)^{19}-30\times(1+0.0200)^{20}-25\times(1+0.0200)^{21}=7007$

Equipment bought at time 12: $C_{1213} = 2500\times(1+0.0200)^{12}+120\times(1+0.0200)^{13}-2000\times(1+0.0200)^{13}-80\times(1+0.0200)^{13}=633$

$C_{1214} = 2500\times(1+0.0200)^{12}+120\times(1+0.0200)^{13}+180\times(1+0.0200)^{14}-1800\times(1+0.0200)^{14}-80\times(1+0.0200)^{13}-90\times(1+0.0200)^{14}=963$

$C_{1215} = 2500\times(1+0.0200)^{12}+120\times(1+0.0200)^{13}+180\times(1+0.0200)^{14}+240\times(1+0.0200)^{15}-1600\times(1+0.0200)^{15}-80\times(1+0.0200)^{13}-90\times(1+0.0200)^{14}-75\times(1+0.0200)^{15}=1407$

$C_{1216} = 2500\times(1+0.0200)^{12}+120\times(1+0.0200)^{13}+180\times(1+0.0200)^{14}+240\times(1+0.0200)^{15}+300\times(1+0.0200)^{16}-1400\times(1+0.0200)^{16}-80\times(1+0.0200)^{13}-90\times(1+0.0200)^{14}-75\times(1+0.0200)^{15}-65\times(1+0.0200)^{16}=1960$

$C_{1217} = 2500 \times (1+0.0200)^{12} + 120 \times (1+0.0200)^{13} + 180 \times (1+0.0200)^{14} + 240 \times (1+0.0200)^{15} + 300 \times (1+0.0200)^{16} + 360 \times (1+0.0200)^{17} - 1200 \times (1+0.0200)^{17} - 80 \times (1+0.0200)^{13} - 90 \times (1+0.0200)^{14} - 75 \times (1+0.0200)^{15} - 65 \times (1+0.0200)^{16} - 55 \times (1+0.0200)^{17} = 2627$

$C_{1218} = 2500 \times (1+0.0200)^{12} + 120 \times (1+0.0200)^{13} + 180 \times (1+0.0200)^{14} + 240 \times (1+0.0200)^{15} + 300 \times (1+0.0200)^{16} + 360 \times (1+0.0200)^{17} + 420 \times (1+0.0200)^{18} - 1000 \times (1+0.0200)^{18} - 80 \times (1+0.0200)^{13} - 90 \times (1+0.0200)^{14} - 75 \times (1+0.0200)^{15} - 65 \times (1+0.0200)^{16} - 55 \times (1+0.0200)^{17} - 45 \times (1+0.0200)^{18} = 3413$

$C_{1219} = 2500 \times (1+0.0200)^{12} + 120 \times (1+0.0200)^{13} + 180 \times (1+0.0200)^{14} + 240 \times (1+0.0200)^{15} + 300 \times (1+0.0200)^{16} + 360 \times (1+0.0200)^{17} + 420 \times (1+0.0200)^{18} + 480 \times (1+0.0200)^{19} - 900 \times (1+0.0200)^{19} - 80 \times (1+0.0200)^{13} - 90 \times (1+0.0200)^{14} - 75 \times (1+0.0200)^{15} - 65 \times (1+0.0200)^{16} - 55 \times (1+0.0200)^{17} - 45 \times (1+0.0200)^{18} - 40 \times (1+0.0200)^{19} = 4170$

$C_{1220} = 2500 \times (1+0.0200)^{12} + 120 \times (1+0.0200)^{13} + 180 \times (1+0.0200)^{14} + 240 \times (1+0.0200)^{15} + 300 \times (1+0.0200)^{16} + 360 \times (1+0.0200)^{17} + 420 \times (1+0.0200)^{18} + 480 \times (1+0.0200)^{19} + 540 \times (1+0.0200)^{20} - 800 \times (1+0.0200)^{20} - 80 \times (1+0.0200)^{13} - 90 \times (1+0.0200)^{14} - 75 \times (1+0.0200)^{15} - 65 \times (1+0.0200)^{16} - 55 \times (1+0.0200)^{17} - 45 \times (1+0.0200)^{18} - 40 \times (1+0.0200)^{19} - 35 \times (1+0.0200)^{20} = 5042$

$C_{1221} = 2500 \times (1+0.0200)^{12} + 120 \times (1+0.0200)^{13} + 180 \times (1+0.0200)^{14} + 240 \times (1+0.0200)^{15} + 300 \times (1+0.0200)^{16} + 360 \times (1+0.0200)^{17} + 420 \times (1+0.0200)^{18} + 480 \times (1+0.0200)^{19} + 540 \times (1+0.0200)^{20} + 600 \times (1+0.0200)^{21} - 700 \times (1+0.0200)^{21} - 80 \times (1+0.0200)^{13} - 90 \times (1+0.0200)^{14} - 75 \times (1+0.0200)^{15} - 65 \times (1+0.0200)^{16} - 55 \times (1+0.0200)^{17} - 45 \times (1+0.0200)^{18} - 40 \times (1+0.0200)^{19} - 35 \times (1+0.0200)^{20} - 30 \times (1+0.0200)^{21} = 6033$

$C_{1222} = 2500 \times (1+0.0200)^{12} + 120 \times (1+0.0200)^{13} + 180 \times (1+0.0200)^{14} + 240 \times (1+0.0200)^{15} + 300 \times (1+0.0200)^{16} + 360 \times (1+0.0200)^{17} + 420 \times (1+0.0200)^{18} + 480 \times (1+0.0200)^{19} + 540 \times (1+0.0200)^{20} + 600 \times (1+0.0200)^{21} + 660 \times (1+0.0200)^{22} - 600 \times (1+0.0200)^{22} - 80 \times (1+0.0200)^{13} - 90 \times (1+0.0200)^{14} - 75 \times (1+0.0200)^{15} - 65 \times (1+0.0200)^{16} - 55 \times (1+0.0200)^{17} - 45 \times (1+0.0200)^{18} - 40 \times (1+0.0200)^{19} - 35 \times (1+0.0200)^{20} - 30 \times (1+0.0200)^{21} - 25 \times (1+0.0200)^{22} = 7147$

Equipment bought at time 13: $C_{1314} = 2500 \times (1+0.0200)^{13} + 120 \times (1+0.0200)^{14} - 2000 \times (1+0.0200)^{14} - 80 \times (1+0.0200)^{14} = 647$

$C_{1315} = 2500 \times (1+0.0200)^{13} + 120 \times (1+0.0200)^{14} + 180 \times (1+0.0200)^{15} - 1800 \times (1+0.0200)^{15} - 80 \times (1+0.0200)^{14} - 90 \times (1+0.0200)^{15} = 983$

$C_{1316} = 2500 \times (1+0.0200)^{13} + 120 \times (1+0.0200)^{14} + 180 \times (1+0.0200)^{15} + 240 \times (1+0.0200)^{16} - 1600 \times (1+0.0200)^{16} - 80 \times (1+0.0200)^{14} - 90 \times (1+0.0200)^{15} - 75 \times (1+0.0200)^{16} = 1435$

$C_{1317} = 2500 \times (1+0.0200)^{13} + 120 \times (1+0.0200)^{14} + 180 \times (1+0.0200)^{15} + 240 \times (1+0.0200)^{16} + 300 \times (1+0.0200)^{17} - 1400 \times (1+0.0200)^{17} - 80 \times (1+0.0200)^{14} - 90 \times (1+0.0200)^{15} - 75 \times (1+0.0200)^{16} - 65 \times (1+0.0200)^{17} = 1999$

$C_{1318} = 2500 \times (1+0.0200)^{13} + 120 \times (1+0.0200)^{14} + 180 \times (1+0.0200)^{15} + 240 \times (1+0.0200)^{16} + 300 \times (1+0.0200)^{17} + 360 \times (1+0.0200)^{18} - 1200 \times (1+0.0200)^{18} - 80 \times (1+0.0200)^{14} - 90 \times (1+0.0200)^{15} - 75 \times (1+0.0200)^{16} - 65 \times (1+0.0200)^{17} - 55 \times (1+0.0200)^{18} = 2681$

$C_{1319} = 2500 \times (1+0.0200)^{13} + 120 \times (1+0.0200)^{14} + 180 \times (1+0.0200)^{15} + 240 \times (1+0.0200)^{16} + 300 \times (1+0.0200)^{17} + 360 \times (1+0.0200)^{18} + 420 \times (1+0.0200)^{19} - 1000 \times (1+0.0200)^{19} - 80 \times (1+0.0200)^{14} - 90 \times (1+0.0200)^{15} - 75 \times (1+0.0200)^{16} - 65 \times (1+0.0200)^{17} - 55 \times (1+0.0200)^{18} - 45 \times (1+0.0200)^{19} = 3483$

$C_{1320} = 2500 \times (1+0.0200)^{13} + 120 \times (1+0.0200)^{14} + 180 \times (1+0.0200)^{15} + 240 \times (1+0.0200)^{16} + 300 \times (1+0.0200)^{17} + 360 \times (1+0.0200)^{18} + 420 \times (1+0.0200)^{19} + 480 \times (1+$

$0.0200)^{20}-900\times(1+0.0200)^{20}-80\times(1+0.0200)^{14}-90\times(1+0.0200)^{15}-75\times(1+0.0200)^{16}-65\times(1+0.0200)^{17}-55\times(1+0.0200)^{18}-45\times(1+0.0200)^{19}-40\times(1+0.0200)^{20}=4255$

$C_{1321}=2500\times(1+0.0200)^{13}+120\times(1+0.0200)^{14}+180\times(1+0.0200)^{15}+240\times(1+0.0200)^{16}+300\times(1+0.0200)^{17}+360\times(1+0.0200)^{18}+420\times(1+0.0200)^{19}+480\times(1+0.0200)^{20}+540\times(1+0.0200)^{21}-800\times(1+0.0200)^{21}-80\times(1+0.0200)^{14}-90\times(1+0.0200)^{15}-75\times(1+0.0200)^{16}-65\times(1+0.0200)^{17}-55\times(1+0.0200)^{18}-45\times(1+0.0200)^{19}-40\times(1+0.0200)^{20}-35\times(1+0.0200)^{21}=5144$

$C_{1322}=2500\times(1+0.0200)^{13}+120\times(1+0.0200)^{14}+180\times(1+0.0200)^{15}+240\times(1+0.0200)^{16}+300\times(1+0.0200)^{17}+360\times(1+0.0200)^{18}+420\times(1+0.0200)^{19}+480\times(1+0.0200)^{20}+540\times(1+0.0200)^{21}+600\times(1+0.0200)^{22}-700\times(1+0.0200)^{22}-80\times(1+0.0200)^{14}-90\times(1+0.0200)^{15}-75\times(1+0.0200)^{16}-65\times(1+0.0200)^{17}-55\times(1+0.0200)^{18}-45\times(1+0.0200)^{19}-40\times(1+0.0200)^{20}-35\times(1+0.0200)^{21}-30\times(1+0.0200)^{22}=6154$

$C_{1323}=2500\times(1+0.0200)^{13}+120\times(1+0.0200)^{14}+180\times(1+0.0200)^{15}+240\times(1+0.0200)^{16}+300\times(1+0.0200)^{17}+360\times(1+0.0200)^{18}+420\times(1+0.0200)^{19}+480\times(1+0.0200)^{20}+540\times(1+0.0200)^{21}+600\times(1+0.0200)^{22}+660\times(1+0.0200)^{23}-600\times(1+0.0200)^{23}-80\times(1+0.0200)^{14}-90\times(1+0.0200)^{15}-75\times(1+0.0200)^{16}-65\times(1+0.0200)^{17}-55\times(1+0.0200)^{18}-45\times(1+0.0200)^{19}-40\times(1+0.0200)^{20}-35\times(1+0.0200)^{21}-30\times(1+0.0200)^{22}-25\times(1+0.0200)^{23}=7290$

Equipment bought at time 14: $C_{1415}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}-2000\times(1+0.0200)^{15}-80\times(1+0.0200)^{15}=659$

$C_{1416}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}-1800\times(1+0.0200)^{16}-80\times(1+0.0200)^{15}-90\times(1+0.0200)^{16}=1002$

$C_{1417}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}+240\times(1+0.0200)^{17}-1600\times(1+0.0200)^{17}-80\times(1+0.0200)^{15}-90\times(1+0.0200)^{16}-75\times(1+0.0200)^{17}=1463$

$C_{1418}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}+240\times(1+0.0200)^{17}+300\times(1+0.0200)^{18}-1400\times(1+0.0200)^{18}-80\times(1+0.0200)^{15}-90\times(1+0.0200)^{16}-75\times(1+0.0200)^{17}-65\times(1+0.0200)^{18}=2039$

$C_{1419}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}+240\times(1+0.0200)^{17}+300\times(1+0.0200)^{18}+360\times(1+0.0200)^{19}-1200\times(1+0.0200)^{19}-80\times(1+0.0200)^{15}-90\times(1+0.0200)^{16}-75\times(1+0.0200)^{17}-65\times(1+0.0200)^{18}-55\times(1+0.0200)^{19}=2733$

$C_{1420}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}+240\times(1+0.0200)^{17}+300\times(1+0.0200)^{18}+360\times(1+0.0200)^{19}+420\times(1+0.0200)^{20}-1000\times(1+0.0200)^{20}-80\times(1+0.0200)^{15}-90\times(1+0.0200)^{16}-75\times(1+0.0200)^{17}-65\times(1+0.0200)^{18}-55\times(1+0.0200)^{19}-45\times(1+0.0200)^{20}=3553$

$C_{1421}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}+240\times(1+0.0200)^{17}+300\times(1+0.0200)^{18}+360\times(1+0.0200)^{19}+420\times(1+0.0200)^{20}+480\times(1+0.0200)^{21}-900\times(1+0.0200)^{21}-80\times(1+0.0200)^{15}-90\times(1+0.0200)^{16}-75\times(1+0.0200)^{17}-65\times(1+0.0200)^{18}-55\times(1+0.0200)^{19}-45\times(1+0.0200)^{20}-40\times(1+0.0200)^{21}=4340$

$C_{1422}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}+240\times(1+0.0200)^{17}+300\times(1+0.0200)^{18}+360\times(1+0.0200)^{19}+420\times(1+0.0200)^{20}+480\times(1+0.0200)^{21}+540\times(1+0.0200)^{22}-800\times(1+0.0200)^{22}-80\times(1+0.0200)^{15}-90\times(1+0.0200)^{16}-75\times(1+0.0200)^{17}-65\times(1+0.0200)^{18}-55\times(1+0.0200)^{19}-45\times(1+0.0200)^{20}-40\times(1+0.0200)^{21}-35\times(1+0.0200)^{22}=5247$

$C_{1423}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}+240\times(1+0.0200)^{17}+300\times(1+0.0200)^{18}+360\times(1+0.0200)^{19}+420\times(1+0.0200)^{20}+480\times(1+0.0200)^{21}+540\times(1+0.0200)^{22}+600\times(1+0.0200)^{23}-700\times(1+0.0200)^{23}-80\times(1+$

$0.0200)^{15}-90\times(1+0.0200)^{16}-75\times(1+0.0200)^{17}-65\times(1+0.0200)^{18}-55\times(1+0.0200)^{19}-45\times(1+0.0200)^{20}-40\times(1+0.0200)^{21}-35\times(1+0.0200)^{22}-30\times(1+0.0200)^{23}=6278$

$C_{1424}=2500\times(1+0.0200)^{14}+120\times(1+0.0200)^{15}+180\times(1+0.0200)^{16}+240\times(1+0.0200)^{17}+300\times(1+0.0200)^{18}+360\times(1+0.0200)^{19}+420\times(1+0.0200)^{20}+480\times(1+0.0200)^{21}+540\times(1+0.0200)^{22}+600\times(1+0.0200)^{23}+660\times(1+0.0200)^{24}-600\times(1+0.0200)^{24}-80\times(1+0.0200)^{15}-90\times(1+0.0200)^{16}-75\times(1+0.0200)^{17}-65\times(1+0.0200)^{18}-55\times(1+0.0200)^{19}-45\times(1+0.0200)^{20}-40\times(1+0.0200)^{21}-35\times(1+0.0200)^{22}-30\times(1+0.0200)^{23}-25\times(1+0.0200)^{24}=7436$

Equipment bought at time 15: $C_{1516}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}-2000\times(1+0.0200)^{16}-80\times(1+0.0200)^{16}=672$

$C_{1517}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}-1800\times(1+0.0200)^{17}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}=1022$

$C_{1518}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}+240\times(1+0.0200)^{18}-1600\times(1+0.0200)^{18}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}-75\times(1+0.0200)^{18}=1491$

$C_{1519}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}+240\times(1+0.0200)^{18}+300\times(1+0.0200)^{19}-1400\times(1+0.0200)^{19}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}-75\times(1+0.0200)^{18}-65\times(1+0.0200)^{19}=2079$

$C_{1520}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}+240\times(1+0.0200)^{18}+300\times(1+0.0200)^{19}+360\times(1+0.0200)^{20}-1200\times(1+0.0200)^{20}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}-75\times(1+0.0200)^{18}-65\times(1+0.0200)^{19}-55\times(1+0.0200)^{20}=2787$

$C_{1521}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}+240\times(1+0.0200)^{18}+300\times(1+0.0200)^{19}+360\times(1+0.0200)^{20}+420\times(1+0.0200)^{21}-1000\times(1+0.0200)^{21}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}-75\times(1+0.0200)^{18}-65\times(1+0.0200)^{19}-55\times(1+0.0200)^{20}-45\times(1+0.0200)^{21}=3622$

$C_{1522}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}+240\times(1+0.0200)^{18}+300\times(1+0.0200)^{19}+360\times(1+0.0200)^{20}+420\times(1+0.0200)^{21}+480\times(1+0.0200)^{22}-900\times(1+0.0200)^{22}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}-75\times(1+0.0200)^{18}-65\times(1+0.0200)^{19}-55\times(1+0.0200)^{20}-45\times(1+0.0200)^{21}-40\times(1+0.0200)^{22}=4426$

$C_{1523}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}+240\times(1+0.0200)^{18}+300\times(1+0.0200)^{19}+360\times(1+0.0200)^{20}+420\times(1+0.0200)^{21}+480\times(1+0.0200)^{22}+540\times(1+0.0200)^{23}-800\times(1+0.0200)^{23}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}-75\times(1+0.0200)^{18}-65\times(1+0.0200)^{19}-55\times(1+0.0200)^{20}-45\times(1+0.0200)^{21}-40\times(1+0.0200)^{22}-35\times(1+0.0200)^{23}=5351$

$C_{1524}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}+240\times(1+0.0200)^{18}+300\times(1+0.0200)^{19}+360\times(1+0.0200)^{20}+420\times(1+0.0200)^{21}+480\times(1+0.0200)^{22}+540\times(1+0.0200)^{23}+600\times(1+0.0200)^{24}-700\times(1+0.0200)^{24}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}-75\times(1+0.0200)^{18}-65\times(1+0.0200)^{19}-55\times(1+0.0200)^{20}-45\times(1+0.0200)^{21}-40\times(1+0.0200)^{22}-35\times(1+0.0200)^{23}-30\times(1+0.0200)^{24}=6403$

$C_{1525}=2500\times(1+0.0200)^{15}+120\times(1+0.0200)^{16}+180\times(1+0.0200)^{17}+240\times(1+0.0200)^{18}+300\times(1+0.0200)^{19}+360\times(1+0.0200)^{20}+420\times(1+0.0200)^{21}+480\times(1+0.0200)^{22}+540\times(1+0.0200)^{23}+600\times(1+0.0200)^{24}+660\times(1+0.0200)^{25}-600\times(1+0.0200)^{25}-80\times(1+0.0200)^{16}-90\times(1+0.0200)^{17}-75\times(1+0.0200)^{18}-65\times(1+0.0200)^{19}-55\times(1+0.0200)^{20}-45\times(1+0.0200)^{21}-40\times(1+0.0200)^{22}-35\times(1+0.0200)^{23}-30\times(1+0.0200)^{24}-25\times(1+0.0200)^{25}=7584$

Equipment bought at time 16: $C_{1617}=2500\times(1+0.0200)^{16}+120\times(1+0.0200)^{17}-2000\times(1+0.0200)^{17}-80\times(1+0.0200)^{17}=685$

$C_{1618} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} - 1800 \times (1+0.0200)^{18} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} = 1043$

$C_{1619} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} + 240 \times (1+0.0200)^{19} - 1600 \times (1+0.0200)^{19} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} - 75 \times (1+0.0200)^{19} = 1522$

$C_{1620} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} + 240 \times (1+0.0200)^{19} + 300 \times (1+0.0200)^{20} - 1400 \times (1+0.0200)^{20} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} - 75 \times (1+0.0200)^{19} - 65 \times (1+0.0200)^{20} = 2120$

$C_{1621} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} + 240 \times (1+0.0200)^{19} + 300 \times (1+0.0200)^{20} + 360 \times (1+0.0200)^{21} - 1200 \times (1+0.0200)^{21} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} - 75 \times (1+0.0200)^{19} - 65 \times (1+0.0200)^{20} - 55 \times (1+0.0200)^{21} = 2843$

$C_{1622} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} + 240 \times (1+0.0200)^{19} + 300 \times (1+0.0200)^{20} + 360 \times (1+0.0200)^{21} + 420 \times (1+0.0200)^{22} - 1000 \times (1+0.0200)^{22} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} - 75 \times (1+0.0200)^{19} - 65 \times (1+0.0200)^{20} - 55 \times (1+0.0200)^{21} - 45 \times (1+0.0200)^{22} = 3695$

$C_{1623} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} + 240 \times (1+0.0200)^{19} + 300 \times (1+0.0200)^{20} + 360 \times (1+0.0200)^{21} + 420 \times (1+0.0200)^{22} + 480 \times (1+0.0200)^{23} - 900 \times (1+0.0200)^{23} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} - 75 \times (1+0.0200)^{19} - 65 \times (1+0.0200)^{20} - 55 \times (1+0.0200)^{21} - 45 \times (1+0.0200)^{22} - 40 \times (1+0.0200)^{23} = 4513$

$C_{1624} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} + 240 \times (1+0.0200)^{19} + 300 \times (1+0.0200)^{20} + 360 \times (1+0.0200)^{21} + 420 \times (1+0.0200)^{22} + 480 \times (1+0.0200)^{23} + 540 \times (1+0.0200)^{24} - 800 \times (1+0.0200)^{24} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} - 75 \times (1+0.0200)^{19} - 65 \times (1+0.0200)^{20} - 55 \times (1+0.0200)^{21} - 45 \times (1+0.0200)^{22} - 40 \times (1+0.0200)^{23} - 35 \times (1+0.0200)^{24} = 5457$

$C_{1625} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} + 240 \times (1+0.0200)^{19} + 300 \times (1+0.0200)^{20} + 360 \times (1+0.0200)^{21} + 420 \times (1+0.0200)^{22} + 480 \times (1+0.0200)^{23} + 540 \times (1+0.0200)^{24} + 600 \times (1+0.0200)^{25} - 700 \times (1+0.0200)^{25} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} - 75 \times (1+0.0200)^{19} - 65 \times (1+0.0200)^{20} - 55 \times (1+0.0200)^{21} - 45 \times (1+0.0200)^{22} - 40 \times (1+0.0200)^{23} - 35 \times (1+0.0200)^{24} - 30 \times (1+0.0200)^{25} = 6529$

$C_{1626} = 2500 \times (1+0.0200)^{16} + 120 \times (1+0.0200)^{17} + 180 \times (1+0.0200)^{18} + 240 \times (1+0.0200)^{19} + 300 \times (1+0.0200)^{20} + 360 \times (1+0.0200)^{21} + 420 \times (1+0.0200)^{22} + 480 \times (1+0.0200)^{23} + 540 \times (1+0.0200)^{24} + 600 \times (1+0.0200)^{25} + 660 \times (1+0.0200)^{26} - 600 \times (1+0.0200)^{26} - 80 \times (1+0.0200)^{17} - 90 \times (1+0.0200)^{18} - 75 \times (1+0.0200)^{19} - 65 \times (1+0.0200)^{20} - 55 \times (1+0.0200)^{21} - 45 \times (1+0.0200)^{22} - 40 \times (1+0.0200)^{23} - 35 \times (1+0.0200)^{24} - 30 \times (1+0.0200)^{25} - 25 \times (1+0.0200)^{26} = 7735$

Equipment bought at time 17: $C_{1718} = 2500 \times (1+0.0200)^{17} + 120 \times (1+0.0200)^{18} - 2000 \times (1+0.0200)^{18} - 80 \times (1+0.0200)^{18} = 699$

$C_{1719} = 2500 \times (1+0.0200)^{17} + 120 \times (1+0.0200)^{18} + 180 \times (1+0.0200)^{19} - 1800 \times (1+0.0200)^{19} - 80 \times (1+0.0200)^{18} - 90 \times (1+0.0200)^{19} = 1063$

$C_{1720} = 2500 \times (1+0.0200)^{17} + 120 \times (1+0.0200)^{18} + 180 \times (1+0.0200)^{19} + 240 \times (1+0.0200)^{20} - 1600 \times (1+0.0200)^{20} - 80 \times (1+0.0200)^{18} - 90 \times (1+0.0200)^{19} - 75 \times (1+0.0200)^{20} = 1552$

$C_{1721} = 2500 \times (1+0.0200)^{17} + 120 \times (1+0.0200)^{18} + 180 \times (1+0.0200)^{19} + 240 \times (1+0.0200)^{20} + 300 \times (1+0.0200)^{21} - 1400 \times (1+0.0200)^{21} - 80 \times (1+0.0200)^{18} - 90 \times (1+0.0200)^{19} - 75 \times (1+0.0200)^{20} - 65 \times (1+0.0200)^{21} = 2163$

$C_{1722} = 2500 \times (1+0.0200)^{17} + 120 \times (1+0.0200)^{18} + 180 \times (1+0.0200)^{19} + 240 \times (1+0.0200)^{20} + 300 \times (1+0.0200)^{21} + 360 \times (1+0.0200)^{22} - 1200 \times (1+0.0200)^{22} - 80 \times (1+$

$0.0200)^{18}-90\times(1+0.0200)^{19}-75\times(1+0.0200)^{20}-65\times(1+0.0200)^{21}-55\times(1+0.0200)^{22}=2899$

$C_{1723}=2500\times(1+0.0200)^{17}+120\times(1+0.0200)^{18}+180\times(1+0.0200)^{19}+240\times(1+0.0200)^{20}+300\times(1+0.0200)^{21}+360\times(1+0.0200)^{22}+420\times(1+0.0200)^{23}-1000\times(1+0.0200)^{23}-80\times(1+0.0200)^{18}-90\times(1+0.0200)^{19}-75\times(1+0.0200)^{20}-65\times(1+0.0200)^{21}-55\times(1+0.0200)^{22}-45\times(1+0.0200)^{23}=3769$

$C_{1724}=2500\times(1+0.0200)^{17}+120\times(1+0.0200)^{18}+180\times(1+0.0200)^{19}+240\times(1+0.0200)^{20}+300\times(1+0.0200)^{21}+360\times(1+0.0200)^{22}+420\times(1+0.0200)^{23}+480\times(1+0.0200)^{24}-900\times(1+0.0200)^{24}-80\times(1+0.0200)^{18}-90\times(1+0.0200)^{19}-75\times(1+0.0200)^{20}-65\times(1+0.0200)^{21}-55\times(1+0.0200)^{22}-45\times(1+0.0200)^{23}-40\times(1+0.0200)^{24}=4605$

$C_{1725}=2500\times(1+0.0200)^{17}+120\times(1+0.0200)^{18}+180\times(1+0.0200)^{19}+240\times(1+0.0200)^{20}+300\times(1+0.0200)^{21}+360\times(1+0.0200)^{22}+420\times(1+0.0200)^{23}+480\times(1+0.0200)^{24}+540\times(1+0.0200)^{25}-800\times(1+0.0200)^{25}-80\times(1+0.0200)^{18}-90\times(1+0.0200)^{19}-75\times(1+0.0200)^{20}-65\times(1+0.0200)^{21}-55\times(1+0.0200)^{22}-45\times(1+0.0200)^{23}-40\times(1+0.0200)^{24}-35\times(1+0.0200)^{25}=5567$

$C_{1726}=2500\times(1+0.0200)^{17}+120\times(1+0.0200)^{18}+180\times(1+0.0200)^{19}+240\times(1+0.0200)^{20}+300\times(1+0.0200)^{21}+360\times(1+0.0200)^{22}+420\times(1+0.0200)^{23}+480\times(1+0.0200)^{24}+540\times(1+0.0200)^{25}+600\times(1+0.0200)^{26}-700\times(1+0.0200)^{26}-80\times(1+0.0200)^{18}-90\times(1+0.0200)^{19}-75\times(1+0.0200)^{20}-65\times(1+0.0200)^{21}-55\times(1+0.0200)^{22}-45\times(1+0.0200)^{23}-40\times(1+0.0200)^{24}-35\times(1+0.0200)^{25}-30\times(1+0.0200)^{26}=6661$

$C_{1727}=2500\times(1+0.0200)^{17}+120\times(1+0.0200)^{18}+180\times(1+0.0200)^{19}+240\times(1+0.0200)^{20}+300\times(1+0.0200)^{21}+360\times(1+0.0200)^{22}+420\times(1+0.0200)^{23}+480\times(1+0.0200)^{24}+540\times(1+0.0200)^{25}+600\times(1+0.0200)^{26}+660\times(1+0.0200)^{27}-600\times(1+0.0200)^{27}-80\times(1+0.0200)^{18}-90\times(1+0.0200)^{19}-75\times(1+0.0200)^{20}-65\times(1+0.0200)^{21}-55\times(1+0.0200)^{22}-45\times(1+0.0200)^{23}-40\times(1+0.0200)^{24}-35\times(1+0.0200)^{25}-30\times(1+0.0200)^{26}-25\times(1+0.0200)^{27}=7891$

Equipment bought at time 18: $C_{1819}=2500\times(1+0.0200)^{18}+120\times(1+0.0200)^{19}-2000\times(1+0.0200)^{19}-80\times(1+0.0200)^{19}=713$

$C_{1820}=2500\times(1+0.0200)^{18}+120\times(1+0.0200)^{19}+180\times(1+0.0200)^{20}-1800\times(1+0.0200)^{20}-80\times(1+0.0200)^{19}-90\times(1+0.0200)^{20}=1085$

$C_{1821}=2500\times(1+0.0200)^{18}+120\times(1+0.0200)^{19}+180\times(1+0.0200)^{20}+240\times(1+0.0200)^{21}-1600\times(1+0.0200)^{21}-80\times(1+0.0200)^{19}-90\times(1+0.0200)^{20}-75\times(1+0.0200)^{21}=1583$

$C_{1822}=2500\times(1+0.0200)^{18}+120\times(1+0.0200)^{19}+180\times(1+0.0200)^{20}+240\times(1+0.0200)^{21}+300\times(1+0.0200)^{22}-1400\times(1+0.0200)^{22}-80\times(1+0.0200)^{19}-90\times(1+0.0200)^{20}-75\times(1+0.0200)^{21}-65\times(1+0.0200)^{22}=2206$

$C_{1823}=2500\times(1+0.0200)^{18}+120\times(1+0.0200)^{19}+180\times(1+0.0200)^{20}+240\times(1+0.0200)^{21}+300\times(1+0.0200)^{22}+360\times(1+0.0200)^{23}-1200\times(1+0.0200)^{23}-80\times(1+0.0200)^{19}-90\times(1+0.0200)^{20}-75\times(1+0.0200)^{21}-65\times(1+0.0200)^{22}-55\times(1+0.0200)^{23}=2958$

$C_{1824}=2500\times(1+0.0200)^{18}+120\times(1+0.0200)^{19}+180\times(1+0.0200)^{20}+240\times(1+0.0200)^{21}+300\times(1+0.0200)^{22}+360\times(1+0.0200)^{23}+420\times(1+0.0200)^{24}-1000\times(1+0.0200)^{24}-80\times(1+0.0200)^{19}-90\times(1+0.0200)^{20}-75\times(1+0.0200)^{21}-65\times(1+0.0200)^{22}-55\times(1+0.0200)^{23}-45\times(1+0.0200)^{24}=3844$

$C_{1825}=2500\times(1+0.0200)^{18}+120\times(1+0.0200)^{19}+180\times(1+0.0200)^{20}+240\times(1+0.0200)^{21}+300\times(1+0.0200)^{22}+360\times(1+0.0200)^{23}+420\times(1+0.0200)^{24}+480\times(1+0.0200)^{25}-900\times(1+0.0200)^{25}-80\times(1+0.0200)^{19}-90\times(1+0.0200)^{20}-75\times(1+0.0200)^{21}-65\times(1+0.0200)^{22}-55\times(1+0.0200)^{23}-45\times(1+0.0200)^{24}-40\times(1+0.0200)^{25}=4697$

$C_{1826} = 2500 \times (1 + 0.0200)^{18} + 120 \times (1 + 0.0200)^{19} + 180 \times (1 + 0.0200)^{20} + 240 \times (1 + 0.0200)^{21} + 300 \times (1 + 0.0200)^{22} + 360 \times (1 + 0.0200)^{23} + 420 \times (1 + 0.0200)^{24} + 480 \times (1 + 0.0200)^{25} + 540 \times (1 + 0.0200)^{26} - 800 \times (1 + 0.0200)^{26} - 80 \times (1 + 0.0200)^{19} - 90 \times (1 + 0.0200)^{20} - 75 \times (1 + 0.0200)^{21} - 65 \times (1 + 0.0200)^{22} - 55 \times (1 + 0.0200)^{23} - 45 \times (1 + 0.0200)^{24} - 40 \times (1 + 0.0200)^{25} - 35 \times (1 + 0.0200)^{26} = 5679$

$C_{1827} = 2500 \times (1 + 0.0200)^{18} + 120 \times (1 + 0.0200)^{19} + 180 \times (1 + 0.0200)^{20} + 240 \times (1 + 0.0200)^{21} + 300 \times (1 + 0.0200)^{22} + 360 \times (1 + 0.0200)^{23} + 420 \times (1 + 0.0200)^{24} + 480 \times (1 + 0.0200)^{25} + 540 \times (1 + 0.0200)^{26} + 600 \times (1 + 0.0200)^{27} - 700 \times (1 + 0.0200)^{27} - 80 \times (1 + 0.0200)^{19} - 90 \times (1 + 0.0200)^{20} - 75 \times (1 + 0.0200)^{21} - 65 \times (1 + 0.0200)^{22} - 55 \times (1 + 0.0200)^{23} - 45 \times (1 + 0.0200)^{24} - 40 \times (1 + 0.0200)^{25} - 35 \times (1 + 0.0200)^{26} - 30 \times (1 + 0.0200)^{27} = 6795$

$C_{1828} = 2500 \times (1 + 0.0200)^{18} + 120 \times (1 + 0.0200)^{19} + 180 \times (1 + 0.0200)^{20} + 240 \times (1 + 0.0200)^{21} + 300 \times (1 + 0.0200)^{22} + 360 \times (1 + 0.0200)^{23} + 420 \times (1 + 0.0200)^{24} + 480 \times (1 + 0.0200)^{25} + 540 \times (1 + 0.0200)^{26} + 600 \times (1 + 0.0200)^{27} + 660 \times (1 + 0.0200)^{28} - 600 \times (1 + 0.0200)^{28} - 80 \times (1 + 0.0200)^{19} - 90 \times (1 + 0.0200)^{20} - 75 \times (1 + 0.0200)^{21} - 65 \times (1 + 0.0200)^{22} - 55 \times (1 + 0.0200)^{23} - 45 \times (1 + 0.0200)^{24} - 40 \times (1 + 0.0200)^{25} - 35 \times (1 + 0.0200)^{26} - 30 \times (1 + 0.0200)^{27} - 25 \times (1 + 0.0200)^{28} = 8050$

Equipment bought at time 19: $C_{1920} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} - 2000 \times (1 + 0.0200)^{20} - 80 \times (1 + 0.0200)^{20} = 729$

$C_{1921} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} - 1800 \times (1 + 0.0200)^{21} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} = 1107$

$C_{1922} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} + 240 \times (1 + 0.0200)^{22} - 1600 \times (1 + 0.0200)^{22} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} - 75 \times (1 + 0.0200)^{22} = 1617$

$C_{1923} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} + 240 \times (1 + 0.0200)^{22} + 300 \times (1 + 0.0200)^{23} - 1400 \times (1 + 0.0200)^{23} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} - 75 \times (1 + 0.0200)^{22} - 65 \times (1 + 0.0200)^{23} = 2253$

$C_{1924} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} + 240 \times (1 + 0.0200)^{22} + 300 \times (1 + 0.0200)^{23} + 360 \times (1 + 0.0200)^{24} - 1200 \times (1 + 0.0200)^{24} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} - 75 \times (1 + 0.0200)^{22} - 65 \times (1 + 0.0200)^{23} - 55 \times (1 + 0.0200)^{24} = 3020$

$C_{1925} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} + 240 \times (1 + 0.0200)^{22} + 300 \times (1 + 0.0200)^{23} + 360 \times (1 + 0.0200)^{24} + 420 \times (1 + 0.0200)^{25} - 1000 \times (1 + 0.0200)^{25} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} - 75 \times (1 + 0.0200)^{22} - 65 \times (1 + 0.0200)^{23} - 55 \times (1 + 0.0200)^{24} - 45 \times (1 + 0.0200)^{25} = 3925$

$C_{1926} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} + 240 \times (1 + 0.0200)^{22} + 300 \times (1 + 0.0200)^{23} + 360 \times (1 + 0.0200)^{24} + 420 \times (1 + 0.0200)^{25} + 480 \times (1 + 0.0200)^{26} - 900 \times (1 + 0.0200)^{26} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} - 75 \times (1 + 0.0200)^{22} - 65 \times (1 + 0.0200)^{23} - 55 \times (1 + 0.0200)^{24} - 45 \times (1 + 0.0200)^{25} - 40 \times (1 + 0.0200)^{26} = 4795$

$C_{1927} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} + 240 \times (1 + 0.0200)^{22} + 300 \times (1 + 0.0200)^{23} + 360 \times (1 + 0.0200)^{24} + 420 \times (1 + 0.0200)^{25} + 480 \times (1 + 0.0200)^{26} + 540 \times (1 + 0.0200)^{27} - 800 \times (1 + 0.0200)^{27} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} - 75 \times (1 + 0.0200)^{22} - 65 \times (1 + 0.0200)^{23} - 55 \times (1 + 0.0200)^{24} - 45 \times (1 + 0.0200)^{25} - 40 \times (1 + 0.0200)^{26} - 35 \times (1 + 0.0200)^{27} = 5797$

$C_{1928} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} + 240 \times (1 + 0.0200)^{22} + 300 \times (1 + 0.0200)^{23} + 360 \times (1 + 0.0200)^{24} + 420 \times (1 + 0.0200)^{25} + 480 \times (1 + 0.0200)^{26} + 540 \times (1 + 0.0200)^{27} + 600 \times (1 + 0.0200)^{28} - 700 \times (1 + 0.0200)^{28} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} - 75 \times (1 + 0.0200)^{22} - 65 \times (1 + 0.0200)^{23} - 55 \times (1 + 0.0200)^{24} - 45 \times (1 + 0.0200)^{25} - 40 \times (1 + 0.0200)^{26} - 35 \times (1 + 0.0200)^{27} - 30 \times (1 + 0.0200)^{28} = 6935$

$C_{1929} = 2500 \times (1 + 0.0200)^{19} + 120 \times (1 + 0.0200)^{20} + 180 \times (1 + 0.0200)^{21} + 240 \times (1 + 0.0200)^{22} + 300 \times (1 + 0.0200)^{23} + 360 \times (1 + 0.0200)^{24} + 420 \times (1 + 0.0200)^{25} + 480 \times (1 + 0.0200)^{26} + 540 \times (1 + 0.0200)^{27} + 600 \times (1 + 0.0200)^{28} + 660 \times (1 + 0.0200)^{29} - 600 \times (1 + 0.0200)^{29} - 80 \times (1 + 0.0200)^{20} - 90 \times (1 + 0.0200)^{21} - 75 \times (1 + 0.0200)^{22} - 65 \times (1 + 0.0200)^{23} - 55 \times (1 + 0.0200)^{24} - 45 \times (1 + 0.0200)^{25} - 40 \times (1 + 0.0200)^{26} - 35 \times (1 + 0.0200)^{27} - 30 \times (1 + 0.0200)^{28} - 25 \times (1 + 0.0200)^{29} = 8215$

Equipment bought at time 20: $C_{2021} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} - 2000 \times (1 + 0.0200)^{21} - 80 \times (1 + 0.0200)^{21} = 741$

$C_{2022} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} - 1800 \times (1 + 0.0200)^{22} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} = 1128$

$C_{2023} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} + 240 \times (1 + 0.0200)^{23} - 1600 \times (1 + 0.0200)^{23} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} - 75 \times (1 + 0.0200)^{23} = 1646$

$C_{2024} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} + 240 \times (1 + 0.0200)^{23} + 300 \times (1 + 0.0200)^{24} - 1400 \times (1 + 0.0200)^{24} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} - 75 \times (1 + 0.0200)^{23} - 65 \times (1 + 0.0200)^{24} = 2295$

$C_{2025} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} + 240 \times (1 + 0.0200)^{23} + 300 \times (1 + 0.0200)^{24} + 360 \times (1 + 0.0200)^{25} - 1200 \times (1 + 0.0200)^{25} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} - 75 \times (1 + 0.0200)^{23} - 65 \times (1 + 0.0200)^{24} - 55 \times (1 + 0.0200)^{25} = 3077$

$C_{2026} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} + 240 \times (1 + 0.0200)^{23} + 300 \times (1 + 0.0200)^{24} + 360 \times (1 + 0.0200)^{25} + 420 \times (1 + 0.0200)^{26} - 1000 \times (1 + 0.0200)^{26} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} - 75 \times (1 + 0.0200)^{23} - 65 \times (1 + 0.0200)^{24} - 55 \times (1 + 0.0200)^{25} - 45 \times (1 + 0.0200)^{26} = 3998$

$C_{2027} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} + 240 \times (1 + 0.0200)^{23} + 300 \times (1 + 0.0200)^{24} + 360 \times (1 + 0.0200)^{25} + 420 \times (1 + 0.0200)^{26} + 480 \times (1 + 0.0200)^{27} - 900 \times (1 + 0.0200)^{27} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} - 75 \times (1 + 0.0200)^{23} - 65 \times (1 + 0.0200)^{24} - 55 \times (1 + 0.0200)^{25} - 45 \times (1 + 0.0200)^{26} - 40 \times (1 + 0.0200)^{27} = 4885$

$C_{2028} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} + 240 \times (1 + 0.0200)^{23} + 300 \times (1 + 0.0200)^{24} + 360 \times (1 + 0.0200)^{25} + 420 \times (1 + 0.0200)^{26} + 480 \times (1 + 0.0200)^{27} + 540 \times (1 + 0.0200)^{28} - 800 \times (1 + 0.0200)^{28} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} - 75 \times (1 + 0.0200)^{23} - 65 \times (1 + 0.0200)^{24} - 55 \times (1 + 0.0200)^{25} - 45 \times (1 + 0.0200)^{26} - 40 \times (1 + 0.0200)^{27} - 35 \times (1 + 0.0200)^{28} = 5908$

$C_{2029} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} + 240 \times (1 + 0.0200)^{23} + 300 \times (1 + 0.0200)^{24} + 360 \times (1 + 0.0200)^{25} + 420 \times (1 + 0.0200)^{26} + 480 \times (1 + 0.0200)^{27} + 540 \times (1 + 0.0200)^{28} + 600 \times (1 + 0.0200)^{29} - 700 \times (1 + 0.0200)^{29} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} - 75 \times (1 + 0.0200)^{23} - 65 \times (1 + 0.0200)^{24} - 55 \times (1 + 0.0200)^{25} - 45 \times (1 + 0.0200)^{26} - 40 \times (1 + 0.0200)^{27} - 35 \times (1 + 0.0200)^{28} - 30 \times (1 + 0.0200)^{29} = 7068$

$C_{2030} = 2500 \times (1 + 0.0200)^{20} + 120 \times (1 + 0.0200)^{21} + 180 \times (1 + 0.0200)^{22} + 240 \times (1 + 0.0200)^{23} + 300 \times (1 + 0.0200)^{24} + 360 \times (1 + 0.0200)^{25} + 420 \times (1 + 0.0200)^{26} + 480 \times (1 + 0.0200)^{27} + 540 \times (1 + 0.0200)^{28} + 600 \times (1 + 0.0200)^{29} + 660 \times (1 + 0.0200)^{30} - 600 \times (1 + 0.0200)^{30} - 80 \times (1 + 0.0200)^{21} - 90 \times (1 + 0.0200)^{22} - 75 \times (1 + 0.0200)^{23} - 65 \times (1 + 0.0200)^{24} - 55 \times (1 + 0.0200)^{25} - 45 \times (1 + 0.0200)^{26} - 40 \times (1 + 0.0200)^{27} - 35 \times (1 + 0.0200)^{28} - 30 \times (1 + 0.0200)^{29} - 25 \times (1 + 0.0200)^{30} = 8374$

Equipment bought at time 21: $C_{2122} = 2500 \times (1 + 0.0200)^{21} + 120 \times (1 + 0.0200)^{22} - 2000 \times (1 + 0.0200)^{22} - 80 \times (1 + 0.0200)^{22} = 758$

$C_{2123} = 2500 \times (1 + 0.0200)^{21} + 120 \times (1 + 0.0200)^{22} + 180 \times (1 + 0.0200)^{23} - 1800 \times (1 + 0.0200)^{23} - 80 \times (1 + 0.0200)^{22} - 90 \times (1 + 0.0200)^{23} = 1152$

$C_{2124} = 2500 \times (1 + 0.0200)^{21} + 120 \times (1 + 0.0200)^{22} + 180 \times (1 + 0.0200)^{23} + 240 \times (1 + 0.0200)^{24} - 1600 \times (1 + 0.0200)^{24} - 80 \times (1 + 0.0200)^{22} - 90 \times (1 + 0.0200)^{23} - 75 \times (1 + 0.0200)^{24} = 1682$

$C_{2125} = 2500 \times (1 + 0.0200)^{21} + 120 \times (1 + 0.0200)^{22} + 180 \times (1 + 0.0200)^{23} + 240 \times (1 + 0.0200)^{24} + 300 \times (1 + 0.0200)^{25} - 1400 \times (1 + 0.0200)^{25} - 80 \times (1 + 0.0200)^{22} - 90 \times (1 + 0.0200)^{23} - 75 \times (1 + 0.0200)^{24} - 65 \times (1 + 0.0200)^{25} = 2344$

$C_{2126} = 2500 \times (1+0.0200)^{21} + 120 \times (1+0.0200)^{22} + 180 \times (1+0.0200)^{23} + 240 \times (1+0.0200)^{24} + 300 \times (1+0.0200)^{25} + 360 \times (1+0.0200)^{26} - 1200 \times (1+0.0200)^{26} - 80 \times (1+0.0200)^{22} - 90 \times (1+0.0200)^{23} - 75 \times (1+0.0200)^{24} - 65 \times (1+0.0200)^{25} - 55 \times (1+0.0200)^{26} = 3141$

$C_{2127} = 2500 \times (1+0.0200)^{21} + 120 \times (1+0.0200)^{22} + 180 \times (1+0.0200)^{23} + 240 \times (1+0.0200)^{24} + 300 \times (1+0.0200)^{25} + 360 \times (1+0.0200)^{26} + 420 \times (1+0.0200)^{27} - 1000 \times (1+0.0200)^{27} - 80 \times (1+0.0200)^{22} - 90 \times (1+0.0200)^{23} - 75 \times (1+0.0200)^{24} - 65 \times (1+0.0200)^{25} - 55 \times (1+0.0200)^{26} - 45 \times (1+0.0200)^{27} = 4082$

$C_{2128} = 2500 \times (1+0.0200)^{21} + 120 \times (1+0.0200)^{22} + 180 \times (1+0.0200)^{23} + 240 \times (1+0.0200)^{24} + 300 \times (1+0.0200)^{25} + 360 \times (1+0.0200)^{26} + 420 \times (1+0.0200)^{27} + 480 \times (1+0.0200)^{28} - 900 \times (1+0.0200)^{28} - 80 \times (1+0.0200)^{22} - 90 \times (1+0.0200)^{23} - 75 \times (1+0.0200)^{24} - 65 \times (1+0.0200)^{25} - 55 \times (1+0.0200)^{26} - 45 \times (1+0.0200)^{27} - 40 \times (1+0.0200)^{28} = 4987$

$C_{2129} = 2500 \times (1 + 0.0200)^{21} + 120 \times (1 + 0.0200)^{22} + 180 \times (1 + 0.0200)^{23} + 240 \times (1 + 0.0200)^{24} + 300 \times (1 + 0.0200)^{25} + 360 \times (1 + 0.0200)^{26} + 420 \times (1 + 0.0200)^{27} + 480 \times (1 + 0.0200)^{28} + 540 \times (1 + 0.0200)^{29} - 800 \times (1 + 0.0200)^{29} - 80 \times (1 + 0.0200)^{22} - 90 \times (1 + 0.0200)^{23} - 75 \times (1 + 0.0200)^{24} - 65 \times (1 + 0.0200)^{25} - 55 \times (1 + 0.0200)^{26} - 45 \times (1 + 0.0200)^{27} - 40 \times (1 + 0.0200)^{28} - 35 \times (1 + 0.0200)^{29} = 6028$

$C_{2130} = 2500 \times (1+0.0200)^{21} + 120 \times (1+0.0200)^{22} + 180 \times (1+0.0200)^{23} + 240 \times (1+0.0200)^{24} + 300 \times (1+0.0200)^{25} + 360 \times (1+0.0200)^{26} + 420 \times (1+0.0200)^{27} + 480 \times (1+0.0200)^{28} + 540 \times (1+0.0200)^{29} + 600 \times (1+0.0200)^{30} - 700 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{22} - 90 \times (1+0.0200)^{23} - 75 \times (1+0.0200)^{24} - 65 \times (1+0.0200)^{25} - 55 \times (1+0.0200)^{26} - 45 \times (1+0.0200)^{27} - 40 \times (1+0.0200)^{28} - 35 \times (1+0.0200)^{29} - 30 \times (1+0.0200)^{30} = 7212$

Equipment bought at time 22: $C_{2223} = 2500 \times (1+0.0200)^{22} + 120 \times (1+0.0200)^{23} - 2000 \times (1 + 0.0200)^{23} - 80 \times (1 + 0.0200)^{23} = 772$

$C_{2224} = 2500 \times (1 + 0.0200)^{22} + 120 \times (1 + 0.0200)^{23} + 180 \times (1 + 0.0200)^{24} - 1800 \times (1 + 0.0200)^{24} - 80 \times (1 + 0.0200)^{23} - 90 \times (1 + 0.0200)^{24} = 1174$

$C_{2225} = 2500 \times (1 + 0.0200)^{22} + 120 \times (1 + 0.0200)^{23} + 180 \times (1 + 0.0200)^{24} + 240 \times (1 + 0.0200)^{25} - 1600 \times (1 + 0.0200)^{25} - 80 \times (1 + 0.0200)^{23} - 90 \times (1 + 0.0200)^{24} - 75 \times (1 + 0.0200)^{25} = 1714$

$C_{2226} = 2500 \times (1 + 0.0200)^{22} + 120 \times (1 + 0.0200)^{23} + 180 \times (1 + 0.0200)^{24} + 240 \times (1 + 0.0200)^{25} + 300 \times (1 + 0.0200)^{26} - 1400 \times (1 + 0.0200)^{26} - 80 \times (1 + 0.0200)^{23} - 90 \times (1 + 0.0200)^{24} - 75 \times (1 + 0.0200)^{25} - 65 \times (1 + 0.0200)^{26} = 2389$

$C_{2227} = 2500 \times (1+0.0200)^{22} + 120 \times (1+0.0200)^{23} + 180 \times (1+0.0200)^{24} + 240 \times (1+0.0200)^{25} + 300 \times (1+0.0200)^{26} + 360 \times (1+0.0200)^{27} - 1200 \times (1+0.0200)^{27} - 80 \times (1+0.0200)^{23} - 90 \times (1+0.0200)^{24} - 75 \times (1+0.0200)^{25} - 65 \times (1+0.0200)^{26} - 55 \times (1+0.0200)^{27} = 3203$

$C_{2228} = 2500 \times (1+0.0200)^{22} + 120 \times (1+0.0200)^{23} + 180 \times (1+0.0200)^{24} + 240 \times (1+0.0200)^{25} + 300 \times (1+0.0200)^{26} + 360 \times (1+0.0200)^{27} + 420 \times (1+0.0200)^{28} - 1000 \times (1+0.0200)^{28} - 80 \times (1+0.0200)^{23} - 90 \times (1+0.0200)^{24} - 75 \times (1+0.0200)^{25} - 65 \times (1+0.0200)^{26} - 55 \times (1+0.0200)^{27} - 45 \times (1+0.0200)^{28} = 4162$

$C_{2229} = 2500 \times (1+0.0200)^{22} + 120 \times (1+0.0200)^{23} + 180 \times (1+0.0200)^{24} + 240 \times (1+0.0200)^{25} + 300 \times (1+0.0200)^{26} + 360 \times (1+0.0200)^{27} + 420 \times (1+0.0200)^{28} + 480 \times (1+$

$0.0200)^{29} - 900 \times (1+0.0200)^{29} - 80 \times (1+0.0200)^{23} - 90 \times (1+0.0200)^{24} - 75 \times (1+0.0200)^{25} - 65 \times (1+0.0200)^{26} - 55 \times (1+0.0200)^{27} - 45 \times (1+0.0200)^{28} - 40 \times (1+0.0200)^{29} = 5085$

$C_{2230} = 2500 \times (1+0.0200)^{22} + 120 \times (1+0.0200)^{23} + 180 \times (1+0.0200)^{24} + 240 \times (1+0.0200)^{25} + 300 \times (1+0.0200)^{26} + 360 \times (1+0.0200)^{27} + 420 \times (1+0.0200)^{28} + 480 \times (1+0.0200)^{29} + 540 \times (1+0.0200)^{30} - 800 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{23} - 90 \times (1+0.0200)^{24} - 75 \times (1+0.0200)^{25} - 65 \times (1+0.0200)^{26} - 55 \times (1+0.0200)^{27} - 45 \times (1+0.0200)^{28} - 40 \times (1+0.0200)^{29} - 35 \times (1+0.0200)^{30} = 6148$

Equipment bought at time 23: $C_{2324} = 2500 \times (1+0.0200)^{23} + 120 \times (1+0.0200)^{24} - 2000 \times (1+0.0200)^{24} - 80 \times (1+0.0200)^{24} = 789$

$C_{2325} = 2500 \times (1+0.0200)^{23} + 120 \times (1+0.0200)^{24} + 180 \times (1+0.0200)^{25} - 1800 \times (1+0.0200)^{25} - 80 \times (1+0.0200)^{24} - 90 \times (1+0.0200)^{25} = 1199$

$C_{2326} = 2500 \times (1+0.0200)^{23} + 120 \times (1+0.0200)^{24} + 180 \times (1+0.0200)^{25} + 240 \times (1+0.0200)^{26} - 1600 \times (1+0.0200)^{26} - 80 \times (1+0.0200)^{24} - 90 \times (1+0.0200)^{25} - 75 \times (1+0.0200)^{26} = 1750$

$C_{2327} = 2500 \times (1+0.0200)^{23} + 120 \times (1+0.0200)^{24} + 180 \times (1+0.0200)^{25} + 240 \times (1+0.0200)^{26} + 300 \times (1+0.0200)^{27} - 1400 \times (1+0.0200)^{27} - 80 \times (1+0.0200)^{24} - 90 \times (1+0.0200)^{25} - 75 \times (1+0.0200)^{26} - 65 \times (1+0.0200)^{27} = 2439$

$C_{2328} = 2500 \times (1+0.0200)^{23} + 120 \times (1+0.0200)^{24} + 180 \times (1+0.0200)^{25} + 240 \times (1+0.0200)^{26} + 300 \times (1+0.0200)^{27} + 360 \times (1+0.0200)^{28} - 1200 \times (1+0.0200)^{28} - 80 \times (1+0.0200)^{24} - 90 \times (1+0.0200)^{25} - 75 \times (1+0.0200)^{26} - 65 \times (1+0.0200)^{27} - 55 \times (1+0.0200)^{28} = 3269$

$C_{2329} = 2500 \times (1+0.0200)^{23} + 120 \times (1+0.0200)^{24} + 180 \times (1+0.0200)^{25} + 240 \times (1+0.0200)^{26} + 300 \times (1+0.0200)^{27} + 360 \times (1+0.0200)^{28} + 420 \times (1+0.0200)^{29} - 1000 \times (1+0.0200)^{29} - 80 \times (1+0.0200)^{24} - 90 \times (1+0.0200)^{25} - 75 \times (1+0.0200)^{26} - 65 \times (1+0.0200)^{27} - 55 \times (1+0.0200)^{28} - 45 \times (1+0.0200)^{29} = 4248$

$C_{2330} = 2500 \times (1+0.0200)^{23} + 120 \times (1+0.0200)^{24} + 180 \times (1+0.0200)^{25} + 240 \times (1+0.0200)^{26} + 300 \times (1+0.0200)^{27} + 360 \times (1+0.0200)^{28} + 420 \times (1+0.0200)^{29} + 480 \times (1+0.0200)^{30} - 900 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{24} - 90 \times (1+0.0200)^{25} - 75 \times (1+0.0200)^{26} - 65 \times (1+0.0200)^{27} - 55 \times (1+0.0200)^{28} - 45 \times (1+0.0200)^{29} - 40 \times (1+0.0200)^{30} = 5189$

Equipment bought at time 24: $C_{2425} = 2500 \times (1+0.0200)^{24} + 120 \times (1+0.0200)^{25} - 2000 \times (1+0.0200)^{25} - 80 \times (1+0.0200)^{25} = 803$

$C_{2426} = 2500 \times (1+0.0200)^{24} + 120 \times (1+0.0200)^{25} + 180 \times (1+0.0200)^{26} - 1800 \times (1+0.0200)^{26} - 80 \times (1+0.0200)^{25} - 90 \times (1+0.0200)^{26} = 1222$

$C_{2427} = 2500 \times (1+0.0200)^{24} + 120 \times (1+0.0200)^{25} + 180 \times (1+0.0200)^{26} + 240 \times (1+0.0200)^{27} - 1600 \times (1+0.0200)^{27} - 80 \times (1+0.0200)^{25} - 90 \times (1+0.0200)^{26} - 75 \times (1+0.0200)^{27} = 1783$

$C_{2428} = 2500 \times (1+0.0200)^{24} + 120 \times (1+0.0200)^{25} + 180 \times (1+0.0200)^{26} + 240 \times (1+0.0200)^{27} + 300 \times (1+0.0200)^{28} - 1400 \times (1+0.0200)^{28} - 80 \times (1+0.0200)^{25} - 90 \times (1+0.0200)^{26} - 75 \times (1+0.0200)^{27} - 65 \times (1+0.0200)^{28} = 2485$

$C_{2429} = 2500 \times (1+0.0200)^{24} + 120 \times (1+0.0200)^{25} + 180 \times (1+0.0200)^{26} + 240 \times (1+0.0200)^{27} + 300 \times (1+0.0200)^{28} + 360 \times (1+0.0200)^{29} - 1200 \times (1+0.0200)^{29} - 80 \times (1+0.0200)^{25} - 90 \times (1+0.0200)^{26} - 75 \times (1+0.0200)^{27} - 65 \times (1+0.0200)^{28} - 55 \times (1+0.0200)^{29} = 3332$

$C_{2430} = 2500 \times (1+0.0200)^{24} + 120 \times (1+0.0200)^{25} + 180 \times (1+0.0200)^{26} + 240 \times (1+0.0200)^{27} + 300 \times (1+0.0200)^{28} + 360 \times (1+0.0200)^{29} + 420 \times (1+0.0200)^{30} - 1000 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{25} - 90 \times (1+0.0200)^{26} - 75 \times (1+0.0200)^{27} - 65 \times (1+0.0200)^{28} - 55 \times (1+0.0200)^{29} - 45 \times (1+0.0200)^{30} = 4330$

Equipment bought at time 25: $C_{2526} = 2500 \times (1+0.0200)^{25} + 120 \times (1+0.0200)^{26} -$

$2000 \times (1+0.0200)^{26} - 80 \times (1+0.0200)^{26} = 820$

$C_{2527} = 2500 \times (1+0.0200)^{25} + 120 \times (1+0.0200)^{26} + 180 \times (1+0.0200)^{27} - 1800 \times (1+0.0200)^{27} - 80 \times (1+0.0200)^{26} - 90 \times (1+0.0200)^{27} = 1247$

$C_{2528} = 2500 \times (1+0.0200)^{25} + 120 \times (1+0.0200)^{26} + 180 \times (1+0.0200)^{27} + 240 \times (1+0.0200)^{28} - 1600 \times (1+0.0200)^{28} - 80 \times (1+0.0200)^{26} - 90 \times (1+0.0200)^{27} - 75 \times (1+0.0200)^{28} = 1820$

$C_{2529} = 2500 \times (1+0.0200)^{25} + 120 \times (1+0.0200)^{26} + 180 \times (1+0.0200)^{27} + 240 \times (1+0.0200)^{28} + 300 \times (1+0.0200)^{29} - 1400 \times (1+0.0200)^{29} - 80 \times (1+0.0200)^{26} - 90 \times (1+0.0200)^{27} - 75 \times (1+0.0200)^{28} - 65 \times (1+0.0200)^{29} = 2535$

$C_{2530} = 2500 \times (1+0.0200)^{25} + 120 \times (1+0.0200)^{26} + 180 \times (1+0.0200)^{27} + 240 \times (1+0.0200)^{28} + 300 \times (1+0.0200)^{29} + 360 \times (1+0.0200)^{30} - 1200 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{26} - 90 \times (1+0.0200)^{27} - 75 \times (1+0.0200)^{28} - 65 \times (1+0.0200)^{29} - 55 \times (1+0.0200)^{30} = 3400$

Equipment bought at time 26: $C_{2627} = 2500 \times (1+0.0200)^{26} + 120 \times (1+0.0200)^{27} - 2000 \times (1+0.0200)^{27} - 80 \times (1+0.0200)^{27} = 836$

$C_{2628} = 2500 \times (1+0.0200)^{26} + 120 \times (1+0.0200)^{27} + 180 \times (1+0.0200)^{28} - 1800 \times (1+0.0200)^{28} - 80 \times (1+0.0200)^{27} - 90 \times (1+0.0200)^{28} = 1272$

$C_{2629} = 2500 \times (1+0.0200)^{26} + 120 \times (1+0.0200)^{27} + 180 \times (1+0.0200)^{28} + 240 \times (1+0.0200)^{29} - 1600 \times (1+0.0200)^{29} - 80 \times (1+0.0200)^{27} - 90 \times (1+0.0200)^{28} - 75 \times (1+0.0200)^{29} = 1856$

$C_{2630} = 2500 \times (1+0.0200)^{26} + 120 \times (1+0.0200)^{27} + 180 \times (1+0.0200)^{28} + 240 \times (1+0.0200)^{29} + 300 \times (1+0.0200)^{30} - 1400 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{27} - 90 \times (1+0.0200)^{28} - 75 \times (1+0.0200)^{29} - 65 \times (1+0.0200)^{30} = 2587$

Equipment bought at time 27: $C_{2728} = 2500 \times (1+0.0200)^{27} + 120 \times (1+0.0200)^{28} - 2000 \times (1+0.0200)^{28} - 80 \times (1+0.0200)^{28} = 852$

$C_{2729} = 2500 \times (1+0.0200)^{27} + 120 \times (1+0.0200)^{28} + 180 \times (1+0.0200)^{29} - 1800 \times (1+0.0200)^{29} - 80 \times (1+0.0200)^{28} - 90 \times (1+0.0200)^{29} = 1297$

$C_{2730} = 2500 \times (1+0.0200)^{27} + 120 \times (1+0.0200)^{28} + 180 \times (1+0.0200)^{29} + 240 \times (1+0.0200)^{30} - 1600 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{28} - 90 \times (1+0.0200)^{29} - 75 \times (1+0.0200)^{30} = 1893$

Equipment bought at time 28: $C_{2829} = 2500 \times (1+0.0200)^{28} + 120 \times (1+0.0200)^{29} - 2000 \times (1+0.0200)^{29} - 80 \times (1+0.0200)^{29} = 870$

$C_{2830} = 2500 \times (1+0.0200)^{28} + 120 \times (1+0.0200)^{29} + 180 \times (1+0.0200)^{30} - 1800 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{29} - 90 \times (1+0.0200)^{30} = 1323$

Equipment bought at time 29: $C_{2930} = 2500 \times (1+0.0200)^{29} + 120 \times (1+0.0200)^{30} - 2000 \times (1+0.0200)^{30} - 80 \times (1+0.0200)^{30} = 888$

C_{tx} Table

Table 1/3 - Columns 1 to 10:

t/x	1	2	3	4	5	6	7	8	9	10
0	500	760	1109	1544	2071	2690	3288	3974	4756	5634
1	–	509	774	1130	1575	2112	2745	3354	4055	4852
2	–	–	520	790	1153	1606	2153	2799	3420	4135
3	–	–	–	530	805	1176	1638	2197	2854	3488
4	–	–	–	–	540	821	1199	1670	2240	2912
5	–	–	–	–	–	551	838	1224	1705	2286
6	–	–	–	–	–	–	562	855	1247	1738
7	–	–	–	–	–	–	–	573	872	1273
8	–	–	–	–	–	–	–	–	585	890
9	–	–	–	–	–	–	–	–	–	597
10	–	–	–	–	–	–	–	–	–	–
11	–	–	–	–	–	–	–	–	–	–
12	–	–	–	–	–	–	–	–	–	–
13	–	–	–	–	–	–	–	–	–	–
14	–	–	–	–	–	–	–	–	–	–
15	–	–	–	–	–	–	–	–	–	–
16	–	–	–	–	–	–	–	–	–	–
17	–	–	–	–	–	–	–	–	–	–
18	–	–	–	–	–	–	–	–	–	–
19	–	–	–	–	–	–	–	–	–	–
20	–	–	–	–	–	–	–	–	–	–
21	–	–	–	–	–	–	–	–	–	–
22	–	–	–	–	–	–	–	–	–	–
23	–	–	–	–	–	–	–	–	–	–
24	–	–	–	–	–	–	–	–	–	–
25	–	–	–	–	–	–	–	–	–	–
26	–	–	–	–	–	–	–	–	–	–
27	–	–	–	–	–	–	–	–	–	–
28	–	–	–	–	–	–	–	–	–	–
29	–	–	–	–	–	–	–	–	–	–

Table 2/3 - Columns 11 to 20:

t/x	11	12	13	14	15	16	17	18	19	20
0	–	–	–	–	–	–	–	–	–	–
1	5747	–	–	–	–	–	–	–	–	–
2	4948	5863	–	–	–	–	–	–	–	–
3	4218	5046	5977	–	–	–	–	–	–	–
4	3557	4301	5147	6098	–	–	–	–	–	–
5	2971	3630	4389	5251	6221	–	–	–	–	–
6	2330	3028	3700	4474	5353	6343	–	–	–	–
7	1775	2380	3092	3778	4567	5464	6472	–	–	–
8	1299	1810	2426	3153	3853	4658	5573	6603	–	–
9	907	1324	1845	2475	3217	3930	4751	5685	6734	–
10	609	926	1351	1882	2523	3280	4007	4846	5799	6869
11	–	621	944	1378	1920	2575	3346	4088	4943	5914
12	–	–	633	963	1407	1960	2627	3413	4170	5042
13	–	–	–	647	983	1435	1999	2681	3483	4255
14	–	–	–	–	659	1002	1463	2039	2733	3553
15	–	–	–	–	–	672	1022	1491	2079	2787
16	–	–	–	–	–	–	685	1043	1522	2120
17	–	–	–	–	–	–	–	699	1063	1552
18	–	–	–	–	–	–	–	–	713	1085
19	–	–	–	–	–	–	–	–	–	729
20	–	–	–	–	–	–	–	–	–	–
21	–	–	–	–	–	–	–	–	–	–
22	–	–	–	–	–	–	–	–	–	–
23	–	–	–	–	–	–	–	–	–	–
24	–	–	–	–	–	–	–	–	–	–
25	–	–	–	–	–	–	–	–	–	–
26	–	–	–	–	–	–	–	–	–	–
27	–	–	–	–	–	–	–	–	–	–
28	–	–	–	–	–	–	–	–	–	–
29	–	–	–	–	–	–	–	–	–	–

Table 3/3 - Columns 21 to 30:

t/x	21	22	23	24	25	26	27	28	29	30
0	–	–	–	–	–	–	–	–	–	–
1	–	–	–	–	–	–	–	–	–	–
2	–	–	–	–	–	–	–	–	–	–
3	–	–	–	–	–	–	–	–	–	–
4	–	–	–	–	–	–	–	–	–	–
5	–	–	–	–	–	–	–	–	–	–
6	–	–	–	–	–	–	–	–	–	–
7	–	–	–	–	–	–	–	–	–	–
8	–	–	–	–	–	–	–	–	–	–
9	–	–	–	–	–	–	–	–	–	–
10	–	–	–	–	–	–	–	–	–	–
11	7007	–	–	–	–	–	–	–	–	–
12	6033	7147	–	–	–	–	–	–	–	–
13	5144	6154	7290	–	–	–	–	–	–	–
14	4340	5247	6278	7436	–	–	–	–	–	–
15	3622	4426	5351	6403	7584	–	–	–	–	–
16	2843	3695	4513	5457	6529	7735	–	–	–	–
17	2163	2899	3769	4605	5567	6661	7891	–	–	–
18	1583	2206	2958	3844	4697	5679	6795	8050	–	–
19	1107	1617	2253	3020	3925	4795	5797	6935	8215	–
20	741	1128	1646	2295	3077	3998	4885	5908	7068	8374
21	–	758	1152	1682	2344	3141	4082	4987	6028	7212
22	–	–	772	1174	1714	2389	3203	4162	5085	6148
23	–	–	–	789	1199	1750	2439	3269	4248	5189
24	–	–	–	–	803	1222	1783	2485	3332	4330
25	–	–	–	–	–	820	1247	1820	2535	3400
26	–	–	–	–	–	–	836	1272	1856	2587
27	–	–	–	–	–	–	–	852	1297	1893
28	–	–	–	–	–	–	–	–	870	1323
29	–	–	–	–	–	–	–	–	–	888

Step by Step Calculations

$G(30) = 0$ (Base case)

$G(29) = \min\{C_{2930} + G(30) = 888 + 0 = 888\} = 888$

Optimal choice: sell at time 30

$G(28) = \min\{C_{2829} + G(29) = 870 + 888 = 1758, C_{2830} + G(30) = 1323 + 0 = 1323\} = 1323$

Optimal choice: sell at time 30

$G(27) = \min\{C_{2728} + G(28) = 852 + 1323 = 2175, C_{2729} + G(29) = 1297 + 888 = 2185, C_{2730} + G(30) = 1893 + 0 = 1893\} = 1893$

Optimal choice: sell at time 30

$G(26) = \min\{C_{2627} + G(27) = 836 + 1893 = 2729, C_{2628} + G(28) = 1272 + 1323 = 2595, C_{2629} + G(29) = 1856 + 888 = 2744, C_{2630} + G(30) = 2587 + 0 = 2587\} = 2587$

Optimal choice: sell at time 30

$G(25) = \min\{C_{2526} + G(26) = 820 + 2587 = 3407, C_{2527} + G(27) = 1247 + 1893 = 3140, C_{2528} + G(28) = 1820 + 1323 = 3143, C_{2529} + G(29) = 2535 + 888 = 3423, C_{2530} + G(30) = 3400 + 0 = 3400\} = 3140$

Optimal choice: sell at time 27

$G(24) = \min\{C_{2425} + G(25) = 803 + 3140 = 3943, C_{2426} + G(26) = 1222 + 2587 = 3809, C_{2427} + G(27) = 1783 + 1893 = 3676, C_{2428} + G(28) = 2485 + 1323 = 3808, C_{2429} + G(29) = 3332 + 888 = 4220, C_{2430} + G(30) = 4330 + 0 = 4330\} = 3676$

Optimal choice: sell at time 27

$G(23) = \min\{C_{2324} + G(24) = 789 + 3676 = 4465, C_{2325} + G(25) = 1199 + 3140 = 4339, C_{2326} + G(26) = 1750 + 2587 = 4337, C_{2327} + G(27) = 2439 + 1893 = 4332, C_{2328} + G(28) = 3269 + 1323 = 4592, C_{2329} + G(29) = 4248 + 888 = 5136, C_{2330} + G(30) = 5189 + 0 = 5189\} = 4332$

Optimal choice: sell at time 27

$G(22) = \min\{C_{2223} + G(23) = 772 + 4332 = 5104, C_{2224} + G(24) = 1174 + 3676 = 4850, C_{2225} + G(25) = 1714 + 3140 = 4854, C_{2226} + G(26) = 2389 + 2587 = 4976, C_{2227} + G(27) = 3203 + 1893 = 5096, C_{2228} + G(28) = 4162 + 1323 = 5485, C_{2229} + G(29) = 5085 + 888 = 5973, C_{2230} + G(30) = 6148 + 0 = 6148\} = 4850$

Optimal choice: sell at time 24

$G(21) = \min\{C_{2122} + G(22) = 758 + 4850 = 5608, C_{2123} + G(23) = 1152 + 4332 = 5484, C_{2124} + G(24) = 1682 + 3676 = 5358, C_{2125} + G(25) = 2344 + 3140 = 5484, C_{2126} + G(26) = 3141 + 2587 = 5728, C_{2127} + G(27) = 4082 + 1893 = 5975, C_{2128} + G(28) = 4987 + 1323 = 6310, C_{2129} + G(29) = 6028 + 888 = 6916, C_{2130} + G(30) = 7212 + 0 = 7212\} = 5358$

Optimal choice: sell at time 24

$G(20) = \min\{C_{2021} + G(21) = 741 + 5358 = 6099, C_{2022} + G(22) = 1128 + 4850 = 5978, C_{2023} + G(23) = 1646 + 4332 = 5978, C_{2024} + G(24) = 2295 + 3676 = 5971, C_{2025} + G(25) = 3077 + 3140 = 6217, C_{2026} + G(26) = 3998 + 2587 = 6585, C_{2027} + G(27) = 4885 + 1893 = 6778, C_{2028} + G(28) = 5908 + 1323 = 7231, C_{2029} + G(29) = 7068 + 888 = 7956, C_{2030} + G(30) = 8374 + 0 = 8374\} = 5971$

Optimal choice: sell at time 24

$G(19) = \min\{C_{1920} + G(20) = 729 + 5971 = 6700, C_{1921} + G(21) = 1107 + 5358 = 6465, C_{1922} + G(22) = 1617 + 4850 = 6467, C_{1923} + G(23) = 2253 + 4332 = 6585, C_{1924} + G(24) = 3020 + 3676 = 6696, C_{1925} + G(25) = 3925 + 3140 = 7065, C_{1926} + G(26) = 4795 + 2587 = 7382, C_{1927} + G(27) = 5797 + 1893 = 7690, C_{1928} + G(28) = 6935 + 1323 = 8258, C_{1929} + G(29) = 8215 + 888 = 9103\} = 6465$

Optimal choice: sell at time 21

$G(18) = \min\{C_{1819} + G(19) = 713 + 6465 = 7178, C_{1820} + G(20) = 1085 + 5971 = 7056, C_{1821} + G(21) = 1583 + 5358 = 6941, C_{1822} + G(22) = 2206 + 4850 = 7056, C_{1823} + G(23) = 2958 + 4332 = 7290, C_{1824} + G(24) = 3844 + 3676 = 7520, C_{1825} + G(25) = 4697 + 3140 = 7837, C_{1826} + G(26) = 5679 + 2587 = 8266, C_{1827} + G(27) = 6795 + 1893 = 8688, C_{1828} + G(28) = 8050 + 1323 = 9373\} = 6941$

Optimal choice: sell at time 21

$G(17) = \min\{C_{1718} + G(18) = 699 + 6941 = 7640, C_{1719} + G(19) = 1063 + 6465 = 7528, C_{1720} + G(20) = 1552 + 5971 = 7523, C_{1721} + G(21) = 2163 + 5358 = 7521, C_{1722} + G(22) = 2899 + 4850 = 7749, C_{1723} + G(23) = 3769 + 4332 = 8101, C_{1724} + G(24) = 4605 + 3676 = 8281, C_{1725} + G(25) = 5567 + 3140 = 8707, C_{1726} + G(26) = 6661 + 2587 = 9248, C_{1727} + G(27) = 7891 + 1893 = 9784\} = 7521$

Optimal choice: sell at time 21

$G(16) = \min\{C_{1617} + G(17) = 685 + 7521 = 8206, C_{1618} + G(18) = 1043 + 6941 = 7984, C_{1619} + G(19) = 1522 + 6465 = 7987, C_{1620} + G(20) = 2120 + 5971 = 8091, C_{1621} + G(21) = 2843 + 5358 = 8201, C_{1622} + G(22) = 3695 + 4850 = 8545, C_{1623} + G(23) = 4513 + 4332 = 8845, C_{1624} + G(24) = 5457 + 3676 = 9133, C_{1625} + G(25) = 6529 + 3140 = 9669, C_{1626} + G(26) = 7735 + 2587 = 10322\} = 7984$

Optimal choice: sell at time 18

$G(15) = \min\{C_{1516} + G(16) = 672 + 7984 = 8656, C_{1517} + G(17) = 1022 + 7521 = 8543, C_{1518} + G(18) = 1491 + 6941 = 8432, C_{1519} + G(19) = 2079 + 6465 = 8544, C_{1520} + G(20) = 2787 + 5971 = 8758, C_{1521} + G(21) = 3622 + 5358 = 8980, C_{1522} + G(22) = 4426 + 4850 = 9276, C_{1523} + G(23) = 5351 + 4332 = 9683, C_{1524} + G(24) = 6403 + 3676 = 10079, C_{1525} + G(25) = 7584 + 3140 = 10724\} = 8432$

Optimal choice: sell at time 18

$G(14) = \min\{C_{1415} + G(15) = 659 + 8432 = 9091, C_{1416} + G(16) = 1002 + 7984 = 8986, C_{1417} + G(17) = 1463 + 7521 = 8984, C_{1418} + G(18) = 2039 + 6941 = 8980, C_{1419} + G(19) = 2733 + 6465 = 9198, C_{1420} + G(20) = 3553 + 5971 = 9524, C_{1421} + G(21) = 4340 + 5358 = 9698, C_{1422} + G(22) = 5247 + 4850 = 10097, C_{1423} + G(23) = 6278 + 4332 = 10610, C_{1424} + G(24) = 7436 + 3676 = 11112\} = 8980$

Optimal choice: sell at time 18

$G(13) = \min\{C_{1314} + G(14) = 647 + 8980 = 9627, C_{1315} + G(15) = 983 + 8432 = 9415, C_{1316} + G(16) = 1435 + 7984 = 9419, C_{1317} + G(17) = 1999 + 7521 = 9520, C_{1318} + G(18) = 2681 + 6941 = 9622, C_{1319} + G(19) = 3483 + 6465 = 9948, C_{1320} + G(20) = 4255 + 5971 = 10226, C_{1321} + G(21) = 5144 + 5358 = 10502, C_{1322} + G(22) = 6154 + 4850 = 11004, C_{1323} + G(23) = 7290 + 4332 = 11622\} = 9415$

Optimal choice: sell at time 15

$G(12) = \min\{C_{1213} + G(13) = 633 + 9415 = 10048, C_{1214} + G(14) = 963 + 8980 = 9943, C_{1215} + G(15) = 1407 + 8432 = 9839, C_{1216} + G(16) = 1960 + 7984 = 9944, C_{1217} + G(17) = 2627 + 7521 = 10148, C_{1218} + G(18) = 3413 + 6941 = 10354, C_{1219} + G(19) = 4170 + 6465 = 10635, C_{1220} + G(20) = 5042 + 5971 = 11013, C_{1221} + G(21) = 6033 + 5358 = 11391, C_{1222} + G(22) = 7147 + 4850 = 11997\} = 9839$

Optimal choice: sell at time 15

$G(11) = \min\{C_{1112} + G(12) = 621 + 9839 = 10460, C_{1113} + G(13) = 944 + 9415 = 10359, C_{1114} + G(14) = 1378 + 8980 = 10358, C_{1115} + G(15) = 1920 + 8432 = 10352, C_{1116} + G(16) = 2575 + 7984 = 10559, C_{1117} + G(17) = 3346 + 7521 = 10867, C_{1118} + G(18) = 4088 + 6941 = 11029, C_{1119} + G(19) = 4943 + 6465 = 11408, C_{1120} + G(20) = 5914 + 5971 = 11885, C_{1121} + G(21) = 7007 + 5358 = 12365\} = 10352$

Optimal choice: sell at time 15

$G(10) = \min\{C_{1011} + G(11) = 609 + 10352 = 10961, C_{1012} + G(12) = 926 + 9839 = 10765, C_{1013} + G(13) = 1351 + 9415 = 10766, C_{1014} + G(14) = 1882 + 8980 = 10862, C_{1015} + G(15) = 2523 + 8432 = 10955, C_{1016} + G(16) = 3280 + 7984 = 11264, C_{1017} + G(17) = 4007 + 7521 = 11528, C_{1018} + G(18) = 4846 + 6941 = 11787, C_{1019} + G(19) = 5799 + 6465 = 12264, C_{1020} + G(20) = 6869 + 5971 = 12840\} = 10765$

Optimal choice: sell at time 12

$G(9) = \min\{C_{910} + G(10) = 597 + 10765 = 11362, C_{911} + G(11) = 907 + 10352 = 11259, C_{912} + G(12) = 1324 + 9839 = 11163, C_{913} + G(13) = 1845 + 9415 = 11260, C_{914} + G(14) = 2475 + 8980 = 11455, C_{915} + G(15) = 3217 + 8432 = 11649, C_{916} + G(16) = 3930 + 7984 = 11914, C_{917} + G(17) = 4751 + 7521 = 12272, C_{918} + G(18) = 5685 + 6941 = 12626, C_{919} + G(19) = 6734 + 6465 = 13199\} = 11163$

Optimal choice: sell at time 12

$G(8) = \min\{C_{89} + G(9) = 585 + 11163 = 11748, C_{810} + G(10) = 890 + 10765 = 11655, C_{811} + G(11) = 1299 + 10352 = 11651, C_{812} + G(12) = 1810 + 9839 = 11649, C_{813} + G(13) = 2426 + 9415 = 11841, C_{814} + G(14) = 3153 + 8980 = 12133, C_{815} + G(15) = 3853 + 8432 = 12285, C_{816} + G(16) = 4658 + 7984 = 12642, C_{817} + G(17) = 5573 + 7521 = 13094, C_{818} + G(18) = 6603 + 6941 = 13544\} = 11649$

Optimal choice: sell at time 12

$G(7) = \min\{C_{78} + G(8) = 573 + 11649 = 12222, C_{79} + G(9) = 872 + 11163 = 12035, C_{710} + G(10) = 1273 + 10765 = 12038, C_{711} + G(11) = 1775 + 10352 = 12127, C_{712} + G(12) = 2380 + 9839 = 12219, C_{713} + G(13) = 3092 + 9415 = 12507, C_{714} + G(14) = 3778 + 8980 = 12758, C_{715} + G(15) = 4567 + 8432 = 12999, C_{716} + G(16) = 5464 + 7984 = 13448, C_{717} + G(17) = 6472 + 7521 = 13993\} = 12035$

Optimal choice: sell at time 9

$G(6) = \min\{C_{67} + G(7) = 562 + 12035 = 12597, C_{68} + G(8) = 855 + 11649 = 12504, C_{69} + G(9) = 1247 + 11163 = 12410, C_{610} + G(10) = 1738 + 10765 = 12503, C_{611} + G(11) = 2330 + 10352 = 12682, C_{612} + G(12) = 3028 + 9839 = 12867, C_{613} + G(13) = 3700 + 9415 = 13115, C_{614} + G(14) = 4474 + 8980 = 13454, C_{615} + G(15) = 5353 + 8432 = 13785, C_{616} + G(16) = 6343 + 7984 = 14327\} = 12410$

Optimal choice: sell at time 9

$G(5) = \min\{C_{56} + G(6) = 551 + 12410 = 12961, C_{57} + G(7) = 838 + 12035 = 12873, C_{58} + G(8) = 1224 + 11649 = 12873, C_{59} + G(9) = 1705 + 11163 = 12868, C_{510} + G(10) = 2286 + 10765 = 13051, C_{511} + G(11) = 2971 + 10352 = 13323, C_{512} + G(12) = 3630 + 9839 = 13469, C_{513} + G(13) = 4389 + 9415 = 13804, C_{514} + G(14) = 5251 + 8980 = 14231, C_{515} + G(15) = 6221 + 8432 = 14653\} = 12868$

Optimal choice: sell at time 9

$G(4) = \min\{C_{45} + G(5) = 540 + 12868 = 13408, C_{46} + G(6) = 821 + 12410 = 13231, C_{47} + G(7) = 1199 + 12035 = 13234, C_{48} + G(8) = 1670 + 11649 = 13319, C_{49} + G(9) = 2240 + 11163 = 13403, C_{410} + G(10) = 2912 + 10765 = 13677, C_{411} + G(11) = 3557 + 10352 = 13909, C_{412} + G(12) = 4301 + 9839 = 14140, C_{413} + G(13) = 5147 + 9415 = 14562, C_{414} + G(14) = 6098 + 8980 = 15078\} = 13231$

Optimal choice: sell at time 6

$G(3) = \min\{C_{34} + G(4) = 530 + 13231 = 13761, C_{35} + G(5) = 805 + 12868 = 13673, C_{36} + G(6) = 1176 + 12410 = 13586, C_{37} + G(7) = 1638 + 12035 = 13673, C_{38} + G(8) = 2197 + 11649 = 13846, C_{39} + G(9) = 2854 + 11163 = 14017, C_{310} + G(10) = 3488 + 10765 = 14253, C_{311} + G(11) = 4218 + 10352 = 14570, C_{312} + G(12) = 5046 + 9839 = 14885, C_{313} + G(13) = 5977 + 9415 = 15392\} = 13586$

Optimal choice: sell at time 6

$G(2) = \min\{C_{23} + G(3) = 520 + 13586 = 14106, C_{24} + G(4) = 790 + 13231 = 14021, C_{25} + G(5) = 1153 + 12868 = 14021, C_{26} + G(6) = 1606 + 12410 = 14016, C_{27} + G(7) = 2153 + 12035 = 14188, C_{28} + G(8) = 2799 + 11649 = 14448, C_{29} + G(9) = 3420 + 11163 = 14583, C_{210} + G(10) = 4135 + 10765 = 14900, C_{211} + G(11) = 4948 + 10352 = 15300, C_{212} + G(12) = 5863 + 9839 = 15702\} = 14016$

Optimal choice: sell at time 6

$G(1) = \min\{C_{12} + G(2) = 509 + 14016 = 14525, C_{13} + G(3) = 774 + 13586 = 14360, C_{14} + G(4) = 1130 + 13231 = 14361, C_{15} + G(5) = 1575 + 12868 = 14443, C_{16} + G(6) = 2112 + 12410 = 14522, C_{17} + G(7) = 2745 + 12035 = 14780, C_{18} + G(8) = 3354 + 11649 = 15003, C_{19} + G(9) = 4055 + 11163 = 15218, C_{110} + G(10) = 4852 + 10765 = 15617, C_{111} + G(11) = 5747 + 10352 = 16099\} = 14360$

Optimal choice: sell at time 3

$G(0) = \min\{C_{01} + G(1) = 500 + 14360 = 14860, C_{02} + G(2) = 760 + 14016 = 14776, C_{03} + G(3) = 1109 + 13586 = 14695, C_{04} + G(4) = 1544 + 13231 = 14775, C_{05} + G(5) = 2071 + 12868 = 14939, C_{06} + G(6) = 2690 + 12410 = 15100, C_{07} + G(7) = 3288 + 12035 = 15323, C_{08} + G(8) = 3974 + 11649 = 15623, C_{09} + G(9) = 4756 + 11163 = 15919, C_{010} + G(10) = 5634 + 10765 = 16399\} = 14695$

Optimal choice: sell at time 3

Result Table (Analysis table)

t	G(t)	Next Replacement
0	14695	3
1	14360	3
2	14016	6
3	13586	6
4	13231	6
5	12868	9
6	12410	9
7	12035	9
8	11649	12
9	11163	12
10	10765	12
11	10352	15
12	9839	15
13	9415	15
14	8980	18
15	8432	18
16	7984	18
17	7521	21
18	6941	21
19	6465	21
20	5971	24
21	5358	24
22	4850	24
23	4332	27
24	3676	27
25	3140	27
26	2587	30
27	1893	30
28	1323	30
29	888	30
30	0	–

Optimal Solution

Minimum Total Cost: 14695

All Optimal Replacement Plans:

- **Plan 1:** Buy at 0, sell at 3 → Buy at 3, sell at 6 → Buy at 6, sell at 9 → Buy at 9, sell at 12 → Buy at 12, sell at 15 → Buy at 15, sell at 18 → Buy at 18, sell at 21 → Buy at 21, sell at 24 → Buy at 24, sell at 27 → Buy at 27, sell at 30