2016
$$a_1 = 120$$

2017 $a_2 = 120 + 10 = 130$
2018 $a_3 = 120 + 10 * 2 = 140$
2019 $a_4 = 120 + 10 * 3 = 150$
2020 $a_5 = a_4 * (100\% + 10\%) = a_4 * 1.1 = 165$
2021 $a_6 = a_4 * (1.1)^2$
...

2025 $a_{10} = a_4 * (1.1)^6 = 150 * (1.1)^6$

$$sum = a_1 + a_2 + \dots + a_{10}$$

$$= \underbrace{a_1 + a_2 + a_3}_{\text{fi}_3\text{fe}} + \underbrace{a_4 + a_5 + \dots + a_{10}}_{\text{fi}_7\text{fe}}$$

$$= \underbrace{120 + 130 + 140}_{\text{fi}_3\text{fe}} + \underbrace{150 + 150 * (1.1) + 150 * (1.1)^2 + \dots + 150 * (1.1)^6}_{\text{fi}_7\text{fe}}$$

$$= 390 + 150 * \underbrace{\frac{1 - 1.1^7}{1 - 1.1}}_{\text{fi}_7\text{fe}}$$
等比数列去和公式 $S_n = a_1 + a_2 + a_3 + \dots + a_n$

$$= a_1 \underbrace{\frac{1 - q^n}{1 - q}}_{\text{fi}_7\text{fe}}$$

= 1813.07565