Consider the population of a bird species consisting 100 hatchlings and 200 adults this year $(\mathrm{t}=0)$. The average fecundity of hatchlings next year is 0.8 , the average fecundity of adults next year is 1.2 , the survivabilities of hatchlings and adults are $0.6,0.5$, respectively.

1. Write down the leslie matrix.
2. Estimate the number of hatchlings and the number of adults next year $(\mathrm{t}=1)$.
3. Estimate the number of hatchlings and the number of adults the year after next year $(\mathrm{t}=2)$.
4. Estimate the number of hatchlings and the number of adults three years after $(\mathrm{t}=3)$.
5. Estimate the number of hatchlings and the number of adults ten years after $(\mathrm{t}=10)$.
