Population Dynamics Example

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Let’s start with Stanford student population distribution

- use U.S. data for birth and death rates
- start from initial population distribution

\[(x_0)_i = \begin{cases} 
2200 & i = 19, 20, \ldots, 27 \\
0 & \text{otherwise}
\end{cases}\]

(approximate population distribution of Stanford students)
Predicting future population distributions

predict $s$ years into the future