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| **Team-3** |

**Problem statement**

Write a program that produces a bar chart showing the population growth of Prairieville, a small town in the Midwest, at 20-year intervals during the past 100 years. The program should read in the population ﬁgures (rounded to the nearest 1,000 people) for 1900, 1920, 1940, 1960, 1980, and 2000 from a ﬁle. For each year it should display the date and a bar consisting of one asterisk for each 1,000 people. The data can be found in the People.txt ﬁle.

Here is an example of how the chart might begin:

PRAIRIEVILLE POPULATION GROWTH

(each \* represents 1,000 people)

1900 \*\*

1920 \*\*\*\*

1940 \*\*\*\*\*

Specifically, you will have to

1. Explain the problem statement (10 points).
2. Compile and execute the code (10 points).
3. Explain the outputs (10 points)
4. Go through the code line-by-line and explain each line (50 points).
5. Answer the audience’s questions (20 points).