

HW #1

San José State University
Department of Computer Science

CS 154: Formal Languages and Computability
Fall 2019

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Problem (40 Points)

Design a DFA over $\Sigma = \{a, b\}$ to accept the following language:

The language whose strings contain **exactly one** 'a' and **more than two** b's.

Examples of L : abbb, babb, bbab, bbba, abbbb, babbb

Examples of \bar{L} : λ , a, b, ab, aaa, aab, ababab

What to Submit

1. Solve the problem using the provided JFLAP in the Canvas
2. Save it as: First_Name.Last_Name.List_Num.jff
If your first or last name has more than one part, hyphenate them and **don't use underscore**. (e.g.: Ahmad.Yazdan-khah.1.jff)
Also note that the list number is '1', and not '01'.
3. Upload it in the Canvas before the due time.

Rubrics

- I'll test your code with 20 random strings. You'll get +2 for every success pass.
- You'll get **-5 for wrong filename!**

General Hints

1. **Always read the requirements at least 10 times!**
An inaccurate software engineer is unacceptable!
2. For **late submission policy**, please refer to the greensheet.
Absolutely no excuse will be accepted.
3. After submitting your work, **always download** it and check whether the process of submission was fine.
4. This is an **individual assignment**. Therefore, exchanging idea is OK but **sharing the answer is NOK!**
5. We are using **JFLAP7.1** and it is NOT compatible with other versions such as JFLAP 7.0 or 8.
6. You can **submit multiple times** and I'll consider the latest one. Note that Canvas adds a number at the end of your file name in the case of multiple-submission.
I do NOT consider that number as the file name.
7. If there is any **question, ambiguity, or concern**, please **open a discussion** in the Canvas.