



CS-C2160 - Theory of Computation, Lecture, 11.1.2022-11.4.2022

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Course feedback

Syllabus

6. Voluntary problem set: Some small brain teasers

These problems are completely **voluntary** (no bonus points given, either) that may require more time to solve. Try with your own responsibility.

[« 6.2 Grammar for a language](#)

[Course overview](#)

Exercise description

My submissions **5 / 50**

Points 1/1

Your task was to give a context-free grammar describing the language $L = \{xy \mid x, y \in \{a, b\}^*, |x| = |y| \text{ and } x \neq y\}$.

Your solution is:

```
S -> AB | BA
A -> XAX
B ->XBX
X -> a | b
A -> b
B -> a
```

Your solution passed all the tests and is thus probably correct.

[7. Voluntary problem set: Finite automata »](#)

Earned points

1 / 1



Exercise info

Exercise category
Voluntary exercises

Your submissions
5 / 50

Deadline
Sat, 31 Dec 2022 23:59:00 +0200

Total number of submitters
4

Submission info

Submitted on
Thu, 10 Feb 2022 14:45:33 +0200

Status
Ready

Grade
1 / 1

Submitters
Nguyen Binh (887799)

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Previous activity

◀ 5. Compulsory problem set: Context-free grammars

Next activity

7. Voluntary problem set: Finite automata ▶



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