

CS-C1000 - Introduction to Artificial Intelligence, 02.03.2021-09.04.2021

Dashboard / Courses / School of Science / department of... / cs-c1000 - in... / Sections / Assignments / exercise 4 (q...

Started on	Monday, 5 April 2021, 5:57 PM
State	Finished
Completed on	Monday, 5 April 2021, 6:07 PM
Time taken	10 mins 7 secs
Grade	10.00 out of 10.00 (100%)

Information [Flag question](#)

These are the questions related to **Computer Exercise B** (Reinforcement learning for Tic-Tac-Toe) on the course.

- The exercise itself is to be done by logging into <https://jupyter.cs.aalto.fi>.
- Follow the instructions given during the exercise session (or look at the instructions in the **session slides**).
- Once you are in the code environment, follow/read the descriptions and run the code.
- Finally, answer questions here.

Question 1 [Flag question](#) Mark 2.00 out of 2.00 Correct

Did you get the notebook started and the utility code executed (**Task 1**). There should be no output, this is just setting things up in the background?

Select one:

- ☐ a. No, I didn't find the notebook or I have no idea what to do (If you are considering to select this option, **stop here**. Check the session slides and/or consult the course assistant).
- ☒ b. Yes, I am all set to rock and roll. ✓

Your answer is correct.
Good job.
The correct answer is: Yes, I am all set to rock and roll.

Question 2 [Flag question](#) Mark 2.00 out of 2.00 Correct

Set up your game-playing agent (**Task 2**). Look at the test stats printed out. What can you see from the stats?

Select one:

- ☐ a. The AI ('X') loses all games.
- ☒ b. The AI ('X') wins roughly half of the time. ✓

Your answer is correct.
In the test statistics the AI wins roughly half of the time (remember that X gets to start in every game).
The correct answer is: The AI ('X') wins roughly half of the time.

Question 3 [Flag question](#) Mark 2.00 out of 2.00 Correct

Play against your agent (**Task 3**). How do the games end? Play at least three games to get an overall feeling.

Don't worry, you get points even if you are bad at playing.

Select one:

- ☐ a. The games were typically draws.
- ☐ b. I lost most of the games.
- ☒ c. I won most of the games. ✓

Your answer is correct.
I hope you won.
The correct answers are: I won most of the games., I lost most of the games., The games were typically draws.

Question 4 [Flag question](#) Mark 2.00 out of 2.00 Correct

After training the agent with 1000 games (**Task 4**), try playing against it again (three or more times). How did it go?

Select one:

- ☐ a. I lost most of the games.
- ☐ b. I won most of the games.
- ☒ c. The games were typically draws. ✓

Your answer is correct.
I hope you are still winning.
The correct answers are: I won most of the games., The games were typically draws., I lost most of the games.

Question 5 [Flag question](#) Mark 2.00 out of 2.00 Correct

After training the agent with 15000 games, what is your feeling when playing against it?

Select one:

- ☐ a. I lost most of the games.
- ☒ b. The games were typically draws. ✓
- ☐ c. I won most of the games.

Your answer is correct.
With optimal play, all games should end in draws.
The correct answers are: I won most of the games., The games were typically draws., I lost most of the games.

Information [Flag question](#)

At the end of the notebook there are a couple of additional (**optional**) tasks to try out. These should be doable for anyone on the course.

[Finish review](#)

← Exercise 4 (slides)

Exercise 4 (video) ►



Tuki / Support

Opiskelijoille / Students

- [MyCourses instructions for students](#)
- email: [mycourses\(at\)aalto.fi](mailto:mycourses(at)aalto.fi)

Opettajille / Teachers

- [MyCourses help](#)
- [MyTeaching Support form](#)

Palvelusta

- [MyCourses rekisteriseloste](#)
- [Tietosuojailmoitus](#)
- [Palvelukuvaus](#)
- [Saavutettavuusseloste](#)

About service

- [MyCourses protection of privacy](#)
- [Privacy notice](#)
- [Service description](#)
- [Accessibility summary](#)

Service

- [MyCourses registerbeskrivning](#)
- [Dataskyddsmeddelande](#)
- [Beskrivning av tjänsten](#)
- [Sammanfattning av tillgängligheten](#)

