

Final Part 6 of 6

Started: Aug 19 at 6:27pm

Quiz Instructions

Welcome to the CSC207 Summer 2021 final assessment. This final assessment comes in 6 parts. Each one is a different quiz on Quercus. You have until 14:00 EST on Friday 20 August 2021 to submit your answers to all of them.

SAVE YOUR ANSWERS IN A TEXT FILE ON YOUR COMPUTER before copying them into Quercus and clicking submit.

You can use spell-check, grammar-check, IntelliJ, the internet, and your notes from the course to answer these questions. IF YOU COPY SOMEONE ELSE'S WORDS it is considered to be CHEATING!!!! **Be sure to put everything in your own words.** Give enough detail so that we are convinced that you understand the concepts.

To ask a question during the exam, go to our usual lecture Zoom session ([link](https://utoronto.zoom.us/j/89521849618) (<https://utoronto.zoom.us/j/89521849618>)) during the following times:

- 14:00--16:00 ET on Thursday 19 Aug
- 22:00--23:59 ET on Thursday 19 Aug
- 9:00--11:00 ET on Friday 20 Aug
- 13:00--14:00 ET on Friday 20 Aug

The first question in Final Part 1 of 6 contains the statement of academic integrity - please make sure to read it.

Question 1

3 pts

Rank the following regular expressions in order of permissiveness. 1 = most permissive, and 3 = most restrictive (least permissive).

[A-Z]+x(\d)\1

2



[A-C]+x22

3



[A-Z]*x\d{2}

1

**Question 2****4 pts**

Consider the following code:

```
public boolean isCode(String incoming) {
    if(incoming.matches(r))
        return true;
    else
        return false;
}
```

Write a regular expression *r* so that *isCode* returns true for precisely those strings that:

1. Start and end with the same digit
2. Contain at least one lower case letter
3. After the first lower case letter, the string contains four digits in a row
4. Contain only upper case letters, lower case letters, and numbers
5. Do not contain any characters other than letters and numbers.

Otherwise *isCode* should return false.

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^(\d)[A-Z0-9]*[a-z]\d{4}[a-zA-Z0-9]*\1\$

p








9 words

**Question 3****2 pts**

Fill in each of the squares with a character so that each resulting horizontal string satisfies the regular expressions to its left and each vertical string satisfies the regular expression above it.

p

  | 2 words |   

No new data to save. Last checked at 6:50pm

Submit Quiz