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# CalC

#### Course

CoC & Instructions



You may submit any number of times before the due date. The final submission will be considered for grading.

You have last submitted on: 2022-03-19, 13:42 IST

#### 1) Online Remote Proctored Exams

1 point

This exam is being conducted in the online mode which will be taken by the examinee at his/her place of residence and proctored remotely by those assigned by the IIT Madras team. During such an exam, the exam session will be recorded by the proctors and the recordings will be handed over to IIT Madras which will be kept for internal purposes. The following guidelines are to be followed by all examinees.

- No examinee shall share their personal details with the proctors (including but not limited to their phone numbers, address), during or after the exam.
- The table/desk where the examinee takes this exam shall not have any items kept that may have sensitive information including but not limited to their phone numbers and address.
- No examinee shall aid, or attempt to aid another candidate by discussing answers via email, text etc.
- No examinee will disclose any of the details of what happened during the exam or examination trials to anyone outside.
- If an examinee wishes to ask a question during the exam, they should post the query in the exam room chat window and the proctor will clarify the issue.
- If any examinee is found to have violated any of the Code of Conduct for Online Examinations, or in any other way to have acted improperly, whether discovered during the examination or afterwards, they will be liable to disciplinary procedures that incur serious penalties. This can include, but not limited to, withholding of exam results, and suspension and/or termination from the program.

Every examinee is deemed to have read, understood and accepted the Code of Conduct governing the conduct of examinations once they present themselves for examinations.

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(L) Q1 Assignment

(L) Q2 Assignment

## Instructions of Exam

### 1) Instructions - System Commands

1 point

- 1. Login 30 minutes before the exam and complete your identity verification and room verification process
- 2. The latest version of seeya has to be downloaded and run. If seeya is not working a local recording has to be taken (Inform the proctor of this)
- 3. Local Record Upload Form: https://forms.gle/BufSyGySYdL3QMV46
- 4. There are Eight questions for which you will have to write code/program. The questions are similar to the ones you have seen in Practice and Graded Programming Assignment. [NOTE: If you do not see 8 questions, please do a hard reload (Ctrl+Shift+R) multiple times till the eight questions are visible]
- 5. The exam has to be completed in 90 minutes.
- 6. Please read CheatSheet and Instructions and agree to the same

Please refer the image 1 shown below to understand the new portal features (refer to the image legend) that you will be able to use while typing your answers in the editor text box.

#### Image1: New portal features



I have read and understood the Instructions

**Submit Answers** 



Course

SC

Time left for this assignment: 01:39:09 CalC





You will be able to resubmit before due date.

Due: 19 Mar 2022 15:30 IST

Time Left: 01:39:09

Given below is a script to delete all the files that ends with the extension .temp and starts with either of the strings 1997, 1999, 2005 and 2018. The command used in the script is stored in the variable files\_to\_be\_removed, and some part of this command is missing. Complete the missing part so that the below script deletes the files as described in the problem. You can write the missing part of the command in the line following the line files to be removed= Is | \, the last character \( \) is to split the command in two lines. Give your solution in one line only.

Hint: to check for . as a character match use the escape character before it like \.

```
Bash
A<sub>A</sub> + - % 🗀 🗅
 1 ▼ script() { echo
 files_to_be_removed=`ls | \
    for file in $files_to_be_removed; do
      echo deleting $file ...
      rm $file
 10
```





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Time left for this assignment: 01:38:50 CalC





Course

You will be able to resubmit before due date.

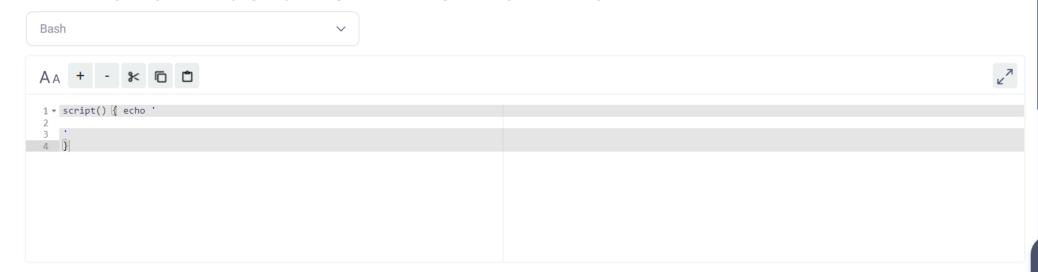
**Due: 19 Mar 2022 15:30 IST** 

Time Left: 01:38:50

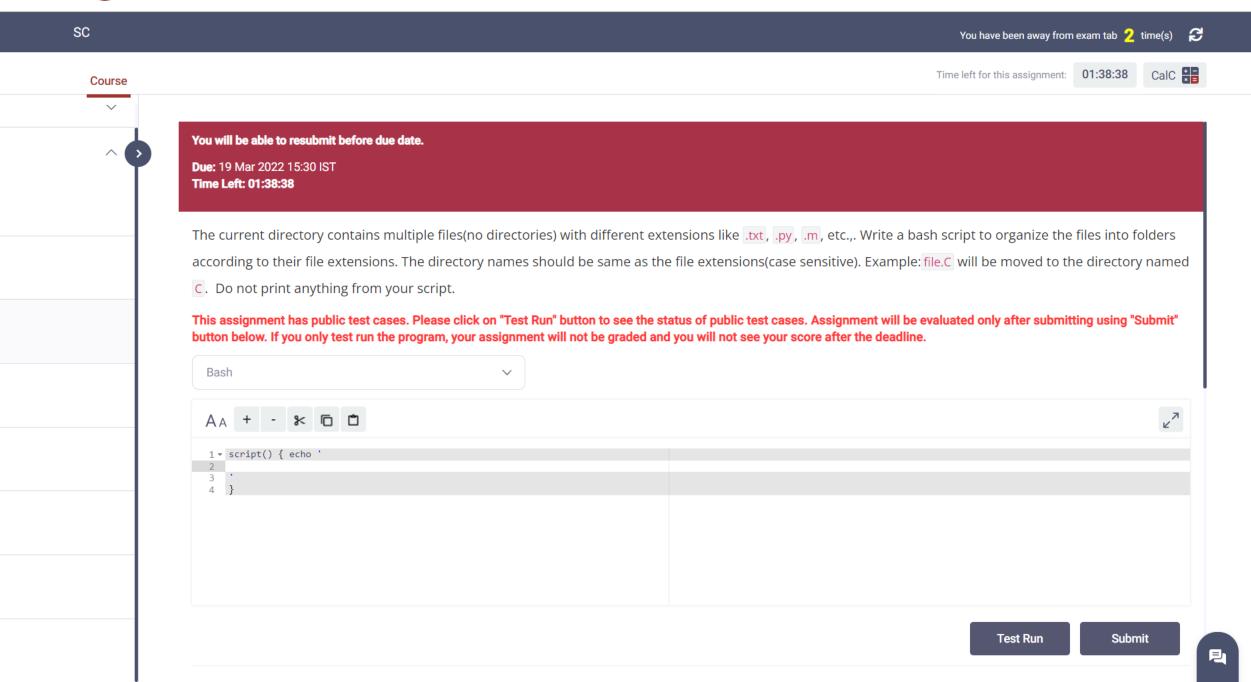
An empty file is the one that has no contents inside (0 byte of data). Write a bash command to print and remove all empty files (not empty directories) in the current working directory.

Each line in the input correspond to a file where first word is the file name and rest of the line are the contents of the file.

Hint: Use find command to write solution in one line.









SC

You have been away from exam tab 2 time(s)





Course

Time left for this assignment: 01:38:22 CalC



You will be able to resubmit before due date.

Due: 19 Mar 2022 15:30 IST

Time Left: 01:38:22

Define a bash function named perms which takes in the name of the file as first argument and prints r if the user has read permissions on the file, prints w if user has write permission on the file, if read or write permission are not there for user print NO in capitals. Print every letter on a new line.

Consider the below files

-rw-rw-rw-1 user1 user1 0 Mar 18 03:55 file1

-r-xrw-rw- 1 user1 user1 0 Mar 18 04:55 file2

--w-rw-r-- 1 user1 user1 0 Mar 18 05:55 file3

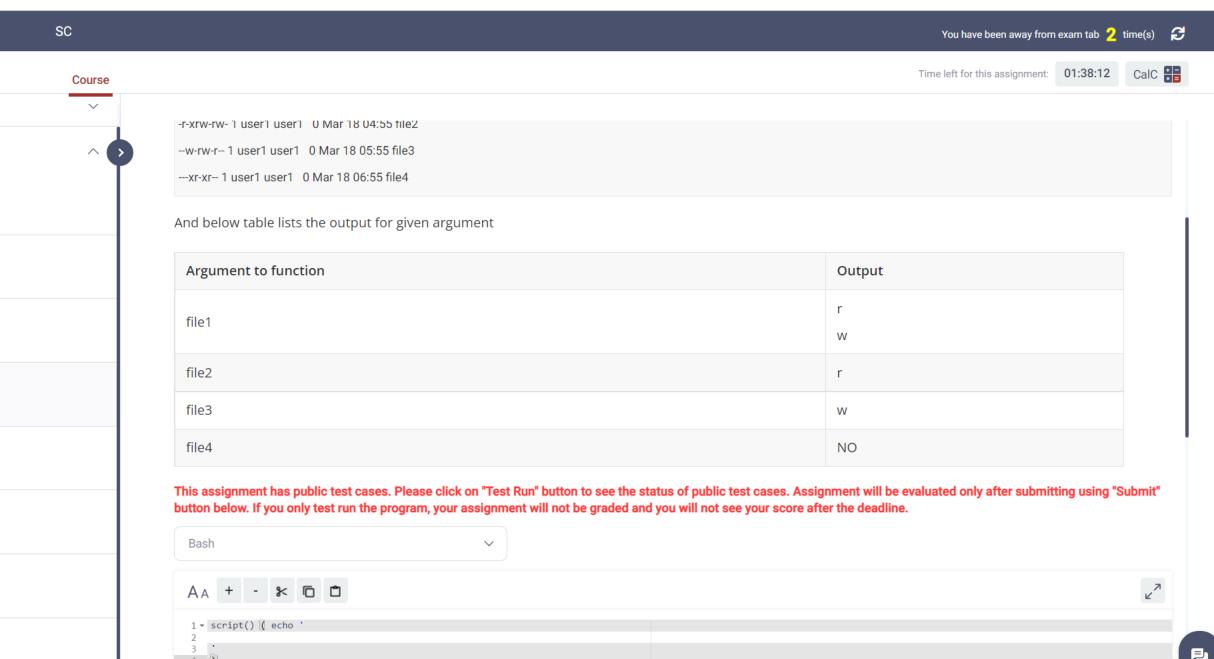
---xr-xr-- 1 user1 user1 0 Mar 18 06:55 file4

And below table lists the output for given argument

Argument to function	Output
file1	r w
file2	r
file3	w









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Time left for this assignment: 01:37:59 CalC





Course



You will be able to resubmit before due date.

Due: 19 Mar 2022 15:30 IST

Time Left: 01:37:59

The file Isoutput contains the output of the command Is -I of some folder.

Sample output of Is -I command

total 78940

-rw-rw-r-- 1 user user 0 Jan 16 11:25 0

drwxrwxr-x 2 user user 4096 Feb 24 13:17 5230

-rw-rw-r-- 1 user user 0 Feb 16 12:14 a4

-rw-rw-r-- 1 user user 80386681 Feb 14 15:21 access-full.log

-rwxrwxr-x 1 user user 16456 Mar 2 02:07 fact

-rwxrwxr-x 1 user user 16889 Mar 4 02:07 fact2

-rw-rw-r-- 1 user user 40 Dec 22 13:24 join.sed

-rw-rw-r-- 1 user user 520 Feb 4 11:13 numbers.txt

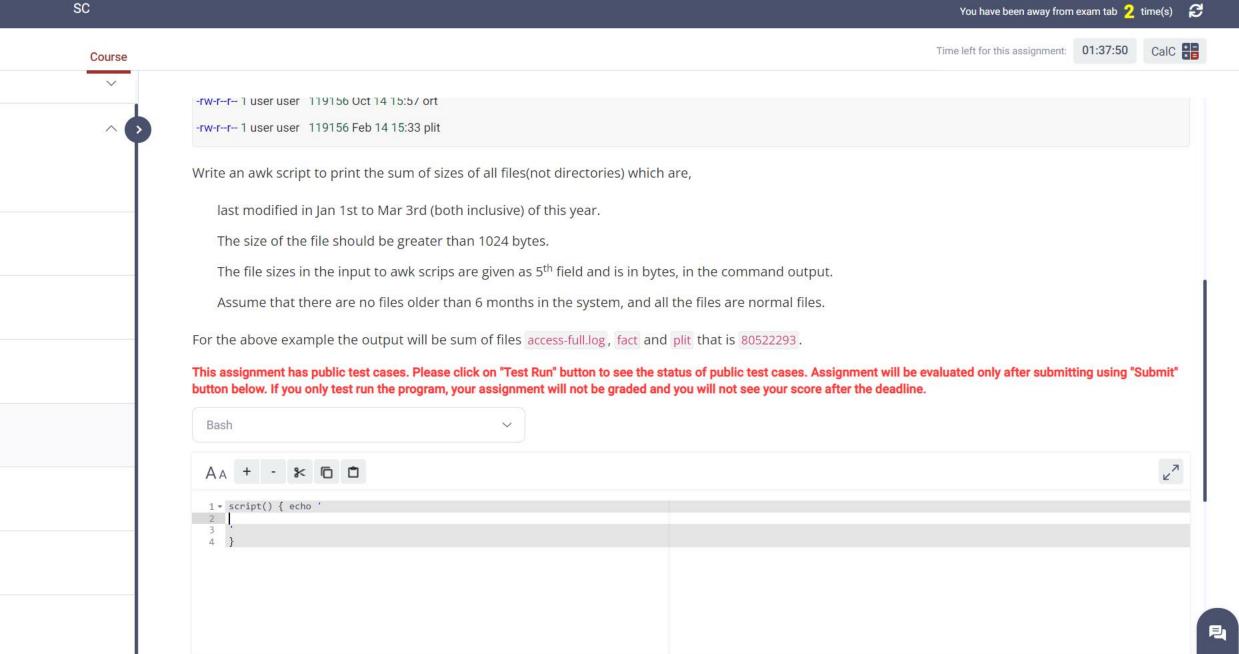
-rw-r--r-- 1 user user 119156 Oct 14 15:57 ort

-rw-r--r- 1 user user 119156 Feb 14 15:33 plit

Write an awk script to print the sum of sizes of all files(not directories) which are,











Time left for this assignment: 01:35:57 CalC





Course

You will be able to resubmit before due date.

Due: 19 Mar 2022 15:30 IST Time Left: 01:35:57

Write an awk script to find unintentionally repeated (duplicate) words in the input file, only consecutive repeatitions should be considered. For example, sometimes a file can contain sentences like The the building is beautiful. Print the repeated words in the sequence they appear starting from first line to last line. If there are more than one repeated words in a line print in the same sequence they appear in the line from left to right.

Match the repeatition as case insensitive.

Print all the words in lower case. (Hint: Can use the function tolower(str) that returns lower case of string "str")

Assume that the words will not be repeated more than once consequetively.

The punctuations if not separated by a space with a word is considered part of the word. Like in the last line of below example the word ear is not considered as repetition.





You have been away from exam tab 2 time(s)

Time left for this assignment: 01:35:42 CalC





SC

You will be able to resubmit before due date.

**Due:** 19 Mar 2022 15:30 IST

Time Left: 01:35:42

A shopkeeper maintains several bills as files and inserts some comments or line separators between every few lines, these line separaters start and end with the character #. He some times forget to add these separators hence want to add them to those files where he missed. Write a sed script that prints the input file after adding a line containing 5 hashes that is #####(without any space) after every 5<sup>th</sup> line of the input file.





'>myScript.sed

