(To be returned by 10:15 on Friday 2.2.)

- Write a C++ program which takes a number as a command line input parameter and writes "Hello world < input number >" in standard output.
 Write a Makefile which compiles and links the program. Create a job script in
 - (a) bash
 - (b) Python

which runs in parallel n jobs (n = 10) with different input and returns the output of each job in a separate file.

2. In CMS we calculate the integrated luminosity of the collision data with a program called 'bril'. In the git repository subdirectory Ex2 we have a bril output brilcalc.log of a dataset from last year data taking Run2023D. Merge the repository master to your master to get the file. Write a python script which takes the summary luminosity from column 'totrecorded(/pb)' and prints the luminosity on screen in units of fb^{-1} and with one decimal precision.

(Hint: Use re (regular expressions))

3. (Extra, voluntary) Extend your python script from **2.** to sum the recorded luminosity from different run:fill's and confirm the sum is the same as given in the summary.

Please push your results into your git repository.