

# Assignment #1 - Fortran Programming & Lexical Analyzer

**Due on Feb 11**

## Fortran Practice

Rewrite *bubbleSort* program (attached on OnCourse). Requirements:

- Use Coding Ground as the development env.
  - <https://www.tutorialspoint.com/codingground.htm>
- Remove all labels
- Use do-while or do loop
- Submit your code online

## Simple lexical analyzer

- Download code front.c (on onCourse).
- Run the code to parse some inputs,
  - eg. ((sum + 47) / total)
- Modify the code front.c (on onCourse). to make it recognize:  
for (FOR\_CODE, 30)  
if (IF\_CODE, 31)  
else (ELSE\_CODE, 32)  
while (WHILE\_CODE, 33)  
do (DO\_CODE, 34)  
int (INT\_CODE, 35)  
float (FLOAT\_CODE, 36)  
switch (SWITCH\_CODE 37)
- Run several test cases (containing for, if, while etc, keywords), to see the results
- Submit your code and the results of test cases