NUM I 23-24: Assignment 1

Write a Fortran program to accomplish the following task:

1) Read one **integer number m** by prompting the user.

2) Check that the user input number m is **greater than 9 and less than 51**. If not, terminate the program with error.

3) Compute the m^{th} fibonacci number and print it on screen

```
Fib(m)=Fib(m-1)+Fib(m-2);  Fib(1)=1; Fib(2)=1;
```

REQUIRED: Use [DO ... END DO] loop construct.
HINT: To terminate a program, use the intrinsic STOP

BONUS: If the user input is not in expected range, print an error message and keep prompting the user until the input is in the expected range of [10-50].
QUESTION: What happens if m > 46? Can you tell why this happens? Next lesson will give you the answer!

Send the source code to <ggiulian@ictp.it> by September 21th

Only the file that contains the source code is required possibly named as: Ass01.YourLastName.f90