Task: Write an interpreter for the BigAdd Language..

Input: Prompt for the source file name. Get the source file name from the user. Assuming the user gave the name x, you should open and read the source file with the extension ".ba" like x.ba.

Output:
The interpreter should run the program defined in the file if the code is correct.
The interprter should report the first error it encounters while loading the code. It should be able to detect any type of error that violates BigAdd syntax and semantics. The ability to catch the errors and reporting them in an informative way is a significant criterion in the evaluation of your work.

Language: C

Submission: You should submit a well-structured report explaining your design concerning the parser and the virtual machine. Describe how the parser works, how it generates a parse tree and how it catches the errors.
 Your report should also include the printout of the source code along with test output samples. You should submit your work in a zip file containing a soft copy of your report and source code of your program to moodle page of the course under the heading "FinalPage".