

ASSIGNMENT (27/09/2021)

Q.1) A student needs to check whether the given number is palindrome or not? He had the problem of reversing the number. Write a YACC program that can solve his problem.

Q.2) A grammar is given: $a^nb^nc^md^m$, where $n, m \geq 0$. Check the validity of the following strings "abcd" and "aabbcd" using the given grammar with the help of a YACC program.

Q.3) A C program file is given to a student and he was asked to recognize valid identifiers, operators and keywords in the given program. Write a YACC program that can solve his task.

Q.4) Let's say we have a thermostat that we want to control using a simple language. A session with the thermostat may look like this:

heat on

Heater on!

heat off

Heater off!

target temperature 22

New temperature set!

Write a YACC program that can control the thermostat.