

Case a) Show that if you define more than the MAX number of variables, then you error

```
msalazar@allman:~/Desktop/cs370/lab4> ./run.sh
yacc -d lab4.y
lex lab4.l
gcc lex.yy.c y.tab.c symtable.c -o lab4
-----
int x;
int y;
int z;
error: number of variables stored is already at the maximum number of 2
█
```

Case b) Show that you cannot declare a variable more than once

```
^Cmsalazar@allman:~/Desktop/cs370/lab4> ./run.sh
yacc -d lab4.y
lex lab4.l
gcc lex.yy.c y.tab.c symtable.c -o lab4
-----
int x;
int x;
error: the variable x is already defined
█
```

Case c) Show that you cannot use a variable that is not defined

```
^Cmsalazar@allman:~/Desktop/cs370/lab4> ./run.sh
yacc -d lab4.y
lex lab4.l
gcc lex.yy.c y.tab.c symtable.c -o lab4
-----
undefinedvariable
error: could not find variable undefinedvariable
the answer is 0
█
```

Case d) Show that a declared variable can be set and used (left and right hand side).

```
^Cmsalazar@allman:~/Desktop/cs370/lab4> ./run.sh
yacc -d lab4.y
lex lab4.l
gcc lex.yy.c y.tab.c symtable.c -o lab4
```

```
-----
int x;
int y;
x
the answer is 0
y
the answer is 0
x = 5
found an integer
x
the answer is 5
y = x
y
the answer is 5
█
```