Part1. Download files from github and finish the code.

Part2. Compile under linux.(My platform is Ubuntu-16.04.3-amd64.)

1. Install vim: sudo apt-get install vim
2. put all code file uder /ee213 , then open a terminal under the path:
   ee213/starter_code/matlab_spice_parser,
   Input in the terminal: make

Failed:

```
yiboliu@ubuntu:~/ee213/starter_code/matlab_spice_parser$ make
flex -oparse.yy.c parse.lex
make: flex: Command not found
Makefile:18: recipe for target 'parse' failed
make: *** [parse] Error 127
yiboliu@ubuntu:~/ee213/starter_code/matlab_spice_parser$ sudo apt-get insatll fl
ex
E: Invalid operation insatll
```

Follow the error information, install flex, failed.(sudo apt-get install flex)

Under Reference 1:
https://askubuntu.com/questions/859125/make-flex-command-not-found
I edit the system source file and installed flex.

3. Under path: ee213/starter_code/matlab_spice_parser,
   open terminal and input: make

Compile Failed:

```
yiboliu@ubuntu:~/ucr-ee213/starter_code/matlab_spice_parser$ make
flex -oparse.yy.c parse.lex
bison -d parse.y
make: bison: Command not found
Makefile:18: recipe for target 'parse' failed
make: *** [parse] Error 127
```

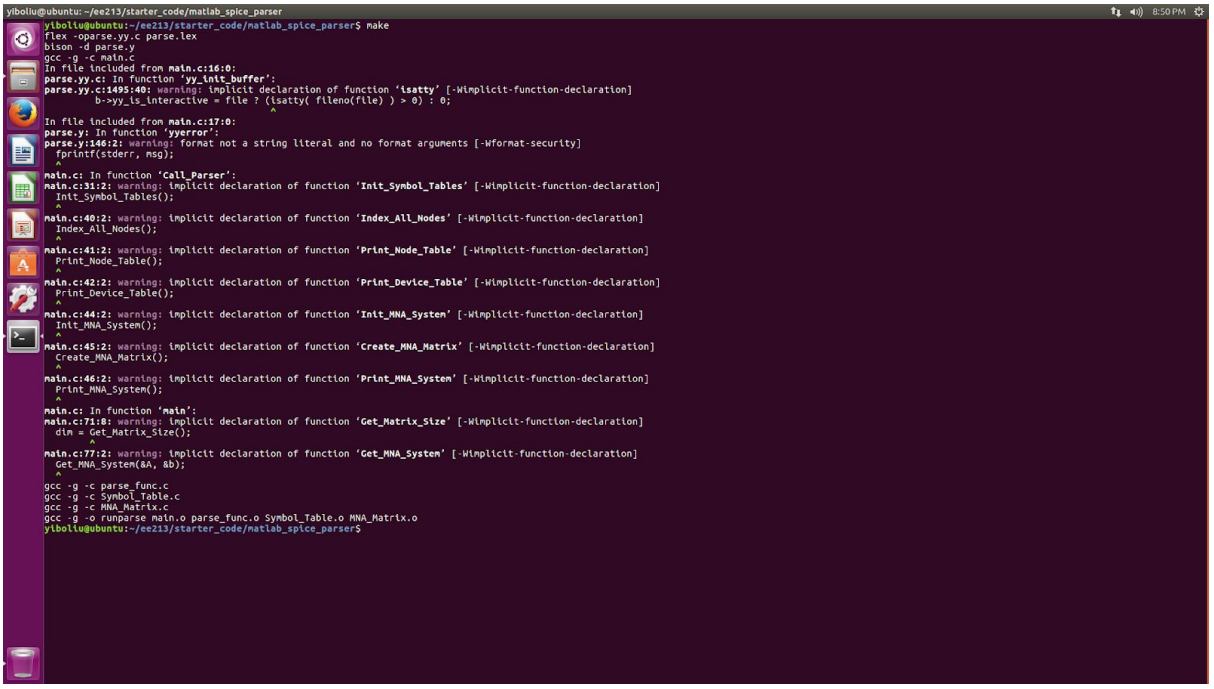
Based on the error information, need to install: bison

4. In the terminal , input: sudo apt-get install bison

```
yiboliu@ubuntu:~/ucr-ee213/starter_code/matlab_spice_parser$ sudo apt-get install bison
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libbison-dev
Suggested packages:
  bison-doc
The following NEW packages will be installed:
  bison libbison-dev
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 595 kB of archives.
After this operation, 1,816 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://old-releases.ubuntu.com/ubuntu utopic/main amd64 libbison-dev amd64 2:3.0.2.dfsg-2 [338 kB]
Get:2 http://old-releases.ubuntu.com/ubuntu utopic/main amd64 bison amd64 2:3.0.2.dfsg-2 [257 kB]
Fetched 595 kB in 1s (399 kB/s)
Selecting previously unselected package libbison-dev:amd64.
(Reading database ... 176189 files and directories currently installed.)
Preparing to unpack .../libbison-dev_2%3a3.0.2.dfsg-2_amd64.deb ...
Unpacking libbison-dev:amd64 (2:3.0.2.dfsg-2) ...
Selecting previously unselected package bison.
Preparing to unpack .../bison_2%3a3.0.2.dfsg-2_amd64.deb ...
Unpacking bison (2:3.0.2.dfsg-2) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up libbison-dev:amd64 (2:3.0.2.dfsg-2) ...
Setting up bison (2:3.0.2.dfsg-2) ...
update-alternatives: using /usr/bin/bison.yacc to provide /usr/bin/yacc (yacc) in auto mode
```

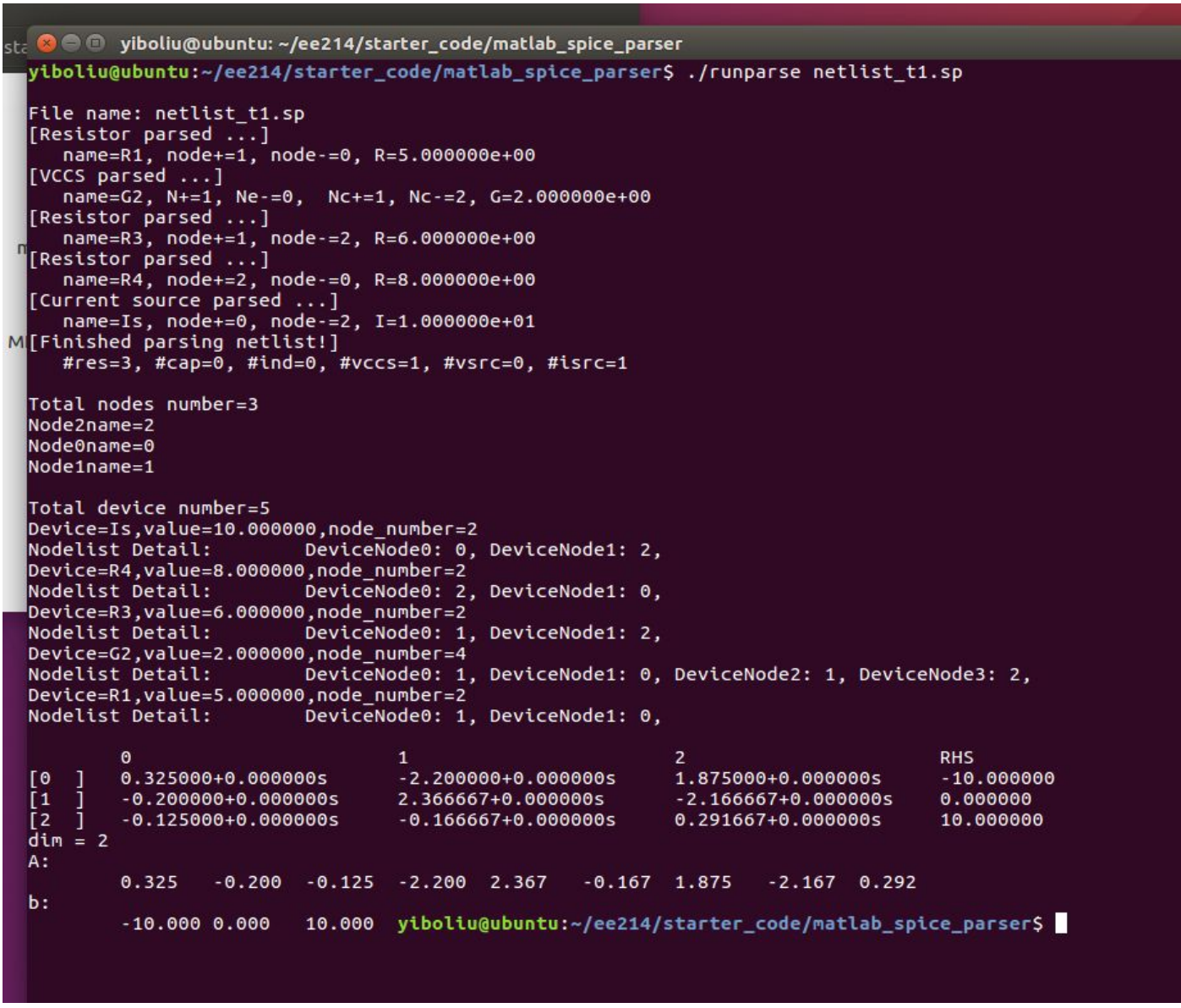
5. Under the path: ee213/starter_code/matlab_spice_parser,
   open terminal and input: make

Compile succeed!



6. Run the nestlist file:
   In the terminal input: ./runparse netlist_t1.sp

This is the final output.

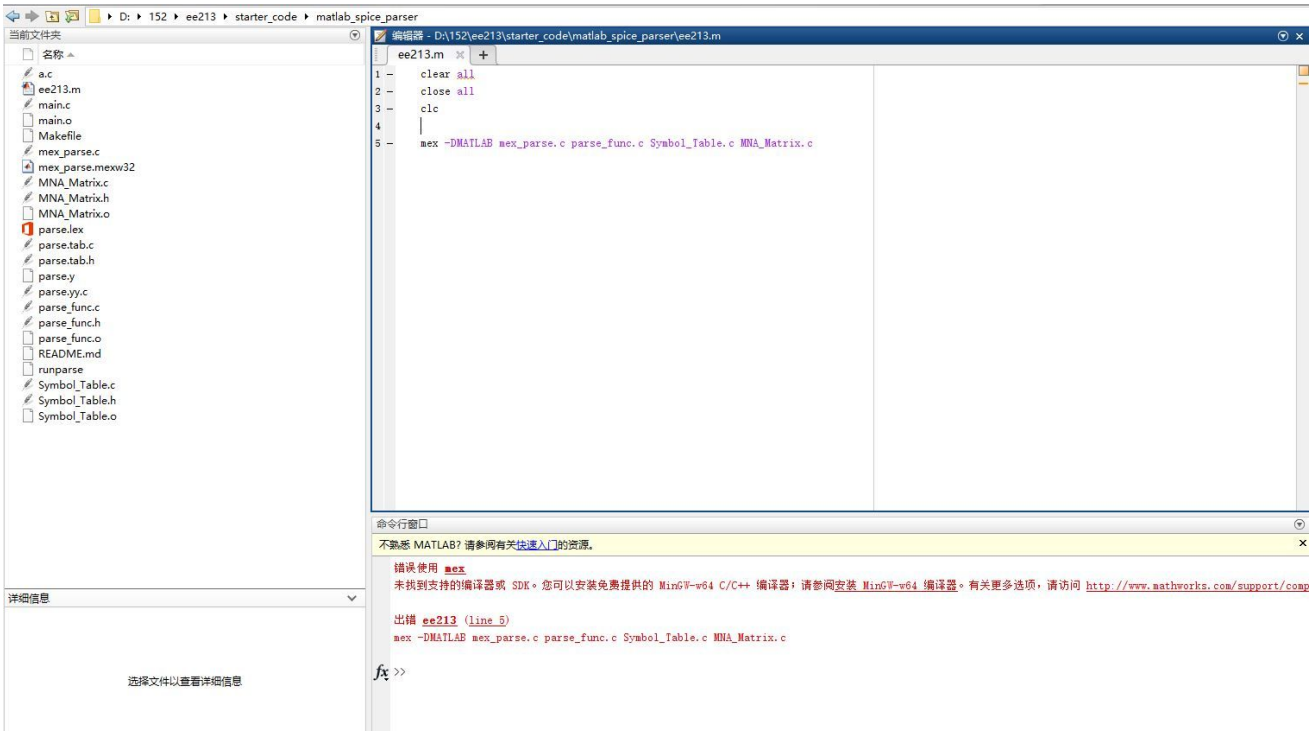


Part3. Compile In Matlab (really necessary??)

1. In Matlab, input:

mex -DMATLAB mex_parse.c parse_func.c Symbol_Table.c MNA_Matrix.c

Failed:



2. Based on the error informaiton, I install MinGW-w64 with following reference:

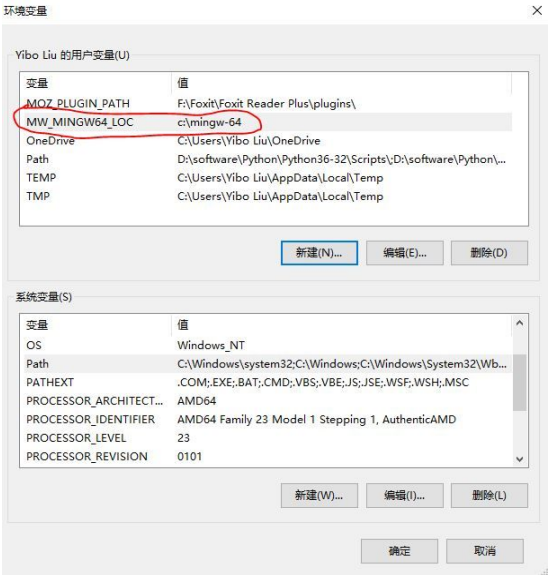
Reference 2:

http://www.mathworks.com/help/matlab/matlab_external/compiling-c-mex-files-with-mingw.html?s_tid=gn_loc_drop

Referece 3:

http://blog.csdn.net/Desire121/article/details/60466845

3. (Ref.3)Download and install mingw-64 under: c:\mingw-64
   Add a new environment variable:



Then, in matlab, input: setenv('MW_MINGW64_LOC','c:\mingw-64');