```
#Lisa He
import time
#Obtain the time before we open the time:
start time = time.clock()
fs_file = open('/Users/Lisa/Documents/BigData/Lec1/wrds/fund_summary.csv')
variables_of_interest = ['crsp_portno', 'fund_name', 'mgr_name', 'nav_lates
#Read the first line:
single line =fs file.readline()
#Go over the header and map each variable name to the column index:
index = 0
vti = dict()
variables = single_line.split(",")
for variable in variables:
    variable = variable.strip()
     if variable in variables_of_interest:
         vti[variable]=index
     index+=1
#Create a list of lists:
ll = list()
line_num=1
for line in fs_file:
    vars = line.split(",")
     ll.append([vars[33], vars[35], vars[40], vars[4], vars[17], vars[18], vars[36]
     line num+=1
fs_file.close()
#Obtain the time after we are done processing:
end_time = time.clock()
#Compute the running time
print ("Read line by line and storing into list of lists takes "+str(round)
#Obtain the time before we open the time:
start_time = time.clock()
fs_file = open('/Users/Lisa/Documents/BigData/Lec1/wrds/fund_summary.csv')
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#Go over the header and map each variable name to the column index:
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vti = dict()
variables = single_line.split(",")
for variable in variables:
    variable = variable.strip()
    if variable in variables_of_interest:
        vti[variable]=index
    index+=1
#Create a list of lists:
ld = list()
line_num=1
for \overline{l} ine in fs_file:
    vars = line.split(",")
    td = dict()
    for var in variables_of_interest:
               td[var]=vars[vti[var]]
    ld.append(td)
    line_num+=1
fs file.close()
\#0btain the time after we are done processing:
end_time = time.clock()
#Compute the running time
print ("Read line by line and storing into list of dictionaries takes "+st
#Results:
#Read line by line and storing into list of lists takes 9.343406 seconds
#Read line by line and storing into list of dictionaries takes 11.503206 se
#list of lists are faster than list of dictionaries
#because dictionaries take up more space in memory due to the hashing proce
#whereas in a list we would be storing an index
```