%assigning variables and ignoring input case.

A = fileread(fileName);

a = lower(A);

lower\_str = lower(searchString);

place\_vec = strfind(a, lower\_str);

%counting the amount of lines in fileName.

fid = fopen(fileName);

n = 0;

nline = fgetl(fid);

while ischar(nline)

nline = fgetl(fid);

n = n+1;

end

%creating a cell array with each cell as a line of the fileName.

fid = fopen(fileName);

tline = cell(n,1);

for i = 1:17

tline{i,1} = fgetl(fid);

end

%creating a vector which indicates where the searchString comes up in

%fileName.

bil = zeros(n,1);

tline\_low = lower(tline);

for i = 1:n

if sum(strfind(tline\_low{i}, lower\_str)) > 0 ;

bil(i) = 1;

end

end

%creates vector which displays the line number that the searchStirng comes up in the fileName.

Ind = find(bil);

%Putting it all in a structure

size\_Ind = size(Ind);

for i = 1:size\_Ind

ret(i).line = Ind(i);

end

for i = 1:size\_Ind

ret(i).string = tline{Ind(i)};

end

searchResult = ret;