MATLAB programming course for beginners, supported by Wagatsuma Lab@Kyutech

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Specifications and requirements

1. @Time : 2022-8-10
2. @Author : Hiroaki Wagatsuma
3. @Site : https://github.com/hirowgit/1A1_matlab_intermediate_course
4. @IDE : MATLAB R2022a
5. @File : lec1_step4b.m

Main program

```
% a generator of the natural number sequence randomly aligned

tic
NofD=10;
flag=true(1,NofD+1);

DataLine=[];
```

```
tmp=floor(rand(1,1)*NofD)+1;

while sum(flag(1:10))>0
    if flag(tmp)
        DataLine(end+1)=tmp;
        flag(tmp)=false;
    end
    tmp=floor(rand(1,1)*NofD)+1;
end

% DataLineComp=unique(DataLine);
%
% compD1=[(1:NofD)'  DataLineComp'];
% compD2=sum(abs(diff(compD1')));
% Tdat=table((1:NofD)',DataLineComp','VariableNames',{'id','sorted_data'});
% disp(Tdat);
%
% if compD2>0
%     disp('It was wrong calculation... ');
% else
%     disp('The mission was sucessfully completed!');
% end

toc

save('DataLine.mat','DataLine');

% load('DataLine.mat');
```

Elapsed time is 0.006697 seconds.

Supplementary information to publish

If you want to make a pdf or html file on the code, you can use the code "x_publish_each_codes.m" in the same folder. Please change the file name as " this_file_tag='lec*_step*' " (* will be replaced to the number of the target file).

The code "x_publish_all_codes.m" works for such a publication applying to all codes in the same folder (Note: "x_publish_all_codes_sub.m" should be located in the same folder).

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