

```
function [callType,callNum,filterTable] = phoneFilter(dataTable)
%PHONEFILTER
% Syntax:[callType,callNum,filterTable] = phoneFilter(dataTable)
% Description: Filters data related to 911 calls in new orleans from a given data table
cell array input.
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% Section: 06DB

%filters out the table so only one of each type is left
uniqueTable = unique(dataTable(2:end,2));

%prompt the user to choose a call type
typeSelectNum = listdlg('PromptString','Choose a type of 911
call','SelectionMode','single','ListString',uniqueTable);
callType = uniqueTable{typeSelectNum}; %store the user's choice as a string

%filters out only the calls of the selected type into a table
filterTable = dataTable(strcmp(dataTable(:,2),callType),[3:4,7:8]);

%finds the number of calls made with the selected type
callNum = size(filterTable,1);

%{
[~,~,dataTable] = xlsread('Calls_for_Service_2011_03_55000_LA.xlsx');
[callType,callNum,filterTable] = phoneFilter(dataTable);
%}
```

5LOC.

I think that's the most condensed version possible, unless you really want to put the entire listdlg() INSIDE the curly braces { } ... but that's pushing. haha