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function [nstart,nstop] = dtmfcut(xx,fs)
DTMFCUT find the DTMF tones within x[n]
% usage:
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       indx = dtmfmain(xx, fs)
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   length of nstart = M = number of tones found
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     nstart is the set of STARTING indices
응
      nstop is the set of ENDING indices
   xx = input signal vector
응
    fs = sampling frequency
응
% Looks for silence regions which must at least 10 millisecs long.
% Also the tones must be longer than 100 msec
xx = xx(:)'/max(abs(xx)); %-- normalize xx
Lx = length(xx);
Lz = round(0.01*fs);
setpoint = 0.1;
                   %-- make everything below 2% zero
xx = filter(ones(1,Lz)/Lz, 1, abs(xx));
xx = diff(xx>setpoint);
jkl = find(xx\sim=0)';
%%%xx(jkl)
if xx(jkl(1))<0, jkl = [1;jkl]; end
if xx(jkl(end))>0, jkl = [jkl;Lx]; end
jkl';
indx = [];
while length(jkl)>1
    if jkl(2) > (jkl(1) + 10*Lz)
        indx = [indx, jkl(1:2)];
    end
    jkl(1:2) = [];
end
nstart = indx(1,:);
nstop = indx(2,:);
```