

```
1 % returns an array of ints where the length of the result is
2 % fac longer than the length of the input and the extra ints in the result
3 % are interpolated from in between the ints in x.
4 % In other words, this function does song/note interpolation
5 % INPUT:
6 % x: vector of notes
7 %fac: factor to scale by
8 function song = scale_song(x,fac)
9     inter = [1,length(x)]-1;
10     %inter = [0,1];
11     % the number of points we want in the result
12     p = floor(length(x)*fac);
13
14     % taking the interpolated function of the original points and rounding
15     % to integers and also making sure we stay positive
16     song = abs( round( dftinterp(inter,x,p) ) );
17
```