```swift
import UIKit

var songTitle = [""]
var artist = [""]
var myIndex = 0
let chordList = "[A,A/C#,A/E,A(add9),A9,A(#5),A5+,A6,A6/E,A6/9,A(6/9)/
    C#,A(6/9)/E,A7M,A7+,A7M/E,A7M/CE,A7M(#5),A7M5+,A7+(#5),A7M(#5)/
    C#,A7M(6),A7M(9),A7M(9)/C#,A7M(6/9),A7M(9)/G#,A7M(9)/E,A7M(#11),A7M(#11)/
    E,A7M(9/#11),A7M(9/#11)/E,Am,Am/C,Am/E,Am(add9),Am6,Am6/E,Am6/
    C#,Am6/9,Am(6/9)/C,Am7,Am7/E,Am/G,Am7(9),Am7(9)/E,Am7(b5),Am/
    A#,Am7(11),Am7(9/11),Am(7M),Am7M,Am7+,Am(7M/6),Am7M/6,A4,A7,A7/C#,A7/E,A/
    G,A7(b5),A7/5-,A7/b5,A7(#11),A7/#11,A7/11+,A7(b5)/C#,A7(-5)/C#,A7(9/
    #11),A7(#11/13),A7(#5),A7/#5,A7/5+,A7(b13),A7/13-,A7(#5)/G,A7(#5)/
    C#,A7(b13)/G,A7(b13)/
    C#,A7(#5/9),A7(13),A7/13,A7(9),A7/9,A7(9/13),A7(b9),A7/9-,A7(#5/b9),A7(b9/
    b13),A7(b9/13),A7(#9),A7/9+,A4(6),A7(#9)/D#,A7(#5/9),A7(#9/#11),A7(b5/
    #9),A7/4,A7sus4,A7/4/9,C#/A,A7/4/13,A7(4/9/13),A7/4/b9,Aí,Adim,Aí/b13,Aí/
    7M,C#m/C,C#m/D#,C#m/D,C#m/C,C/F,D/F,C/D#,A/G#,A/B,A/E,A/
    D#,A6/7,A7/11,A7sus4,Aaug/B,Aaug/E,Adim/G#,Adim/C#,Adim/D,Adim/E,Adim/
    D#,Adim7,Am/A#,Am/B,Am/D,Am/E,Am/D#,Am7/11,Amaj7,Asus,Asus2,Asus2,Asus2/
    G#,Asus2/A#,Asus2/B,Asus2/C,Asus2/D,Asus2/E,Asus2/D#,Asus,Asus4,Asus4/
    G#,Asus,Asus4/A#,Asus4/D,Asus4/E,Asus4/D#,A#,A#/D,A#/
    F,A#(add9),A#9,A#(#5),A#5+,A#6,A#6/F,A#6/9,A#(6/9)/D,A#(6/9)/
    F,A#7M,A#7+,A#7M/F,A#7M/F,A#7M(#5),A#7M5+,A#7+(#5),A#7M(#5)/
    D,A#7M(6),A#7M(9),A#7M(9)/D,A#7M(6/9),A#7M(9)/A,A#7M(9)/F,A#7M(#,
    11)A#7M(#11)/F,A#7M(9/#11),A#7M(9/#11)/F,A#m,A#m/C#,A#m/
    F,A#m(add9),A#m6,A#m6/F,A#m6/D,A#m6/9,A#m(6/9)/C#,A#m7,A#m7/F,A#m/
    G#,A#m7(9),A#m7(9)/F,A#m7(b5),A#m/
    B,A#m7(11),A#m7(9/11),A#m(7M),A#m7M,A#m7+,A#m(7M/6),A#m7M/6,A#4,A#7,A#7/
    D,A#7/F,A#/G#,A#7(b5),A#7/5-,A#7/b5,A#7(#11),A#7/#11,A#7/11+,A#7(b5)/
    D,A#7(-5)/D,A#7(9/#11),A#7(#11/13),A#7(#5),A#7/
    #5,A#7/5+,A#7(b13),A#7/13-,A#7(#5)/G#,A#7(#5)/D,A#7(b13)/G#,A#7(b13)/
    D,A#7(#5/9),A#7(13),A#7/13,A#7(9),A#7/9,A#7(9/13),A#7(b9),A#7/9-,A#7(#5/
    b9),A#7(b9/b13),A#7(b9/13),A#7(#9),A#7/9+,A#7(#9)/E,A#7(#5/9),A#7(#9/
    #11),A#7(b5/#9),A#7/4,A#7sus4,A#7/4/9,C#/A#,A#7/4/13,A#7(4/9/13),A#7/4/
    b9,A#í,A#dim,A#í/b13,A#í/7M,C#m/C,C#m/E,C#m/D#,C#m/C#,C#/F#,D#/F#,C#/E,A#/
    A,A#/C,A#/F,A#/E,A#6/7,A#7/11,A#7sus4,A#aug/C,A#aug/F,A#dim/A,A#dim/
    D,A#dim/D#,A#dim/F,A#dim/E,A#dim7,A#m/B,A#m/C,A#m/D#,A#m/F,A#m/
    E,A#m7/11,A#maj7,A#sus,A#sus2,A#sus2,A#sus2/A,A#sus2/B,A#sus2/C,A#sus2/
    C#,A#sus2/D#,A#sus2/F,A#sus2/E,A#sus,A#sus4,A#sus4/A,A#sus,A#sus4/B,A#sus4/
    D#,A#sus4/F,A#sus4/E,Bb,Bb/D,Bb/F,Bb(add9),Bb9,Bb(#5),Bb5+,Bb6,Bb6/
    F,Bb6/9,Bb(6/9)/D,Bb(6/9)/F,Bb7M,Bb7+,Bb7M/F,Bb7M/F,Bb7M(#5),Bb7M5+,Bb7+
    (#5),Bb7M(#5)/D,Bb7M(6),Bb7M(9),Bb7M(9)/D,Bb7M(6/9),Bb7M(9)/A,Bb7M(9)/
    F,Bb7M(#11),Bb7M(#11)/F,Bb7M(9/#11),Bb11+,D5+/Bb,Bb7M(9/#11)/F,Bbm,Bbm/
    Db,Bbm/F,Bbm(add9),Bbm6,Bbm6/F,Bbm6/D,Bbm6/9,Bbm(6/9)/Db,Bbm7,Bbm7/F,Bbm/
    Ab,Bbm7(9),Bbm7(9)/F,Bbm7(b5),Bbm/
    B,Bbm7(11),Bbm7(9/11),Bbm(7M),Bbm7M,Bbm7+,Bbm(7M/6),Bbm7M/6,Bb4,Bb7,Bb7/
    D,Bb7/F,Bb/Ab,Bb7(b5),Bb7/5-,Bb7/b5,Bb7(#11),Bb7/#11,Bb7/11+,Bb7(b5)/
    D,Bb7(-5)/D,Bb7(9/#11),Bb7(#11/13),Bb7(#5),Bb7/
    #5,Bb7/5+,Bb7(b13),Bb7/13-,Bb7(#5)/Ab,Bb7(#5)/D,Bb7(b13)/Ab,Bb7(b13)/
    D,Bb7(#5/9),Bb7(13),Bb7/13,Bb7(9),Bb7/9,Bb7(9/13),Bb7(b9),Bb7/9-,Bb7(#5/
    b9),Bb7(b9/b13),Bb7(b9/13),Bb7(#9),Bb7/9+,Bb7(#9)/E,Bb7(#5/9),Bb7(#9/
    #11),Bb7(b5/#9),Bb7/4,Bb7sus4,Bb7/4/9,Db/Bb,Bb7/4/13,Bb7(4/9/13),Bb7/4/
    b9,Bbí,Bbdim,Bbí/b13,Bbí/7M,Dbm/C,Dbm/E,Dbm/Eb,Dbm/Db,Db/Gb,Eb/Gb,Db/E,Bb/
    A,Bb/C,Bb/F,Bb/E,Bb6/7,Bb7/11,Bb7sus4,Bbaug/C,Bbaug/F,Bbdim/A,Bbdim/
    D,Bbdim/Eb,Bbdim/F,Bbdim/E,Bbdim7,Bbm/B,Bbm/C,Bbm/Eb,Bbm/F,Bbm/
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E,Bbm7/11,Bbmaj7,Bbsus,Bbsus2,Bbsus2,Bbsus2/A,Bbsus2/B,Bbsus2/C,Bbsus2/
Db,Bbsus2/Eb,Bbsus2/F,Bbsus2/E,Bbsus,Bbsus4,Bbsus4/A,Bbsus,Bbsus4/B,Bbsus4/
Eb,Bbsus4/F,Bbsus4/E,B,B/D#,B/F#,B(add9),B9,B(#5),B5+,B6,B6/F#,B6/9,B(6/9)/
D#,B(6/9)/F#,B7M,B7+,B7M/F#,B7M/D#,B7M(#5),B7M5+,B7+(#5),B7M(#5)/
D#,B7M(6),B7M(9),B7M(9)/D#,B7M(6/9),B7M(9)/A#,B7M(9)/F#,B7M(#11),B7M(#11)/
F#,B7M(9/#11),B7M(9/#11)/F#,Bm,Bm/D,Bm/F#,Bm(add9),Bm6,Bm6/F#,Bm6/
D,Bm6/9,Bm(6/9)/D,Bm7,Bm7/F#,Bm/A,Bm7(9),Bm7(9)/F#,Bm7(b5),Em/
C#,Bm7(11),Bm7(9/11),Bm(7M),Bm7M,Bm7+,Bm(7M/6),Bm7M/6,B4,B7,B7/D#,B7/F#,B/
A#,B7(b5),B7/5-,B7/b5,B7(#11),B7/#11,B7/11+,B7(b5)/D#,B7(-5)/D#,B7(9/
#11),B7(#11/13),B7(#5),B7/#5,B7/5+,B7(b13),B7/13-,B7(#5)/A,B7(#5)/
D#,B7(b13)/A,B7(b13)/
D#,B7(#5/9),B7(13),B7/13,B7(9),B7/9,B7(9/13),B7(b9),B7/9-,B7(#5/b9),B7(b9/
b13),B7(b9/13),B7(#9),B7/9+,B7(#9)/F#,B7(#5/#9),B7(#9/#11),B7(b5/
#9),B7/4,B7sus4,B7/4/9,A/A#,B7/4/13,B7(4/9/13),B7/4/b9,Bí,Bdim,Bí/b13,Bí/
7M,G#m/F#,G#m/F,G#m/E,G#m/D#,E/G#,F#/G#,E/F#,B/A#,B/C#,B/F#,B/
F,B6/7,B7/11,B7sus4,Baug/C#,Baug/F#,Bdim/A#,Bdim/D#,Bdim/E,Bdim/F#,Bdim/
F,Bdim7,Bm/C,Bm/C#,Bm/E,Bm/F#,Bm/F,Bm7/11,Bmaj7,Bsus,Bsus2,Bsus2,Bsus2/
A#,Bsus2/C,Bsus2/C#,Bsus2/B,Bsus2/D,Bsus2/E,Bsus2/F#,Bsus2/
F,Bsus,Bsus4,Bsus4/A#,Bsus,Bsus4/B,Bsus4/E,Bsus4/F#,Bsus4/F,C,C/E,C/
G,C(add9),C9,C(#5),C5+,C6,C6/G,C6/9,C(6/9)/E,C(6/9)/G,C7M,C7+,C7M/G,C7M/
E,C7M(#5),C7M5+,C7+(#5),C7M(#5)/E,C7M(6),C7M(9),C7M(9)/E,C7M(6/9),C7M(9)/
B,C7M(9)/G,C7M(#11),C7M(#11)/G,C7M(9/#11),C7M(9/#11)/G,Cm,Cm/D#,Cm/
G,Cm(add9),Cm6,Cm6/G,Cm6/D#,Cm6/9,Cm(6/9)/D#,Cm7,Cm7/G,Cm/A#,Cm7(9),Cm7(9)/
G,Cm7(b5),Em/D,Cm7(11),Cm7(9/11),Cm(7M),Cm7M,Cm7+,Cm(7M/6),Cm7M/6,C4,C7,C7/
E,C7/G,C/B,C7(b5),C7/5-,C7/b5,C7(#11),C7/#11,C7/11+,C7(b5)/E,C7(-5)/E,C7(9/
#11),C7(#11/13),C7(#5),C7/#5,C7/5+,C7(b13),C7/13-,C7(#5)/A#,C7(#5)/
E,C7(b13)/A#,C7(b13)/
E,C7(#5/9),C7(13),C7/13,C7(9),C7/9,C7(9/13),C7(b9),C7/9-,C7(#5/b9),C7(b9/
b13),C7(b9/13),C7(#9),C7/9+,C7(#9)/G,C7(#5/#9),C7(#9/#11),C7(b5/
#9),C7/4,C7sus4,C7/4/9,A#/B,C7/4/13,C7(4/9/13),C7/4/b9,Cí,Cdim,Cí/b13,Cí/
7M,Am/G,Am/F#,Am/F,Am/E,F/A,G/A,F/G,C/B,C/D,C/G,C/
F#,C6/7,C7/11,C7sus4,Caug/D,Caug/G,Cdim/B,Cdim/E,Cdim/F,Cdim/G,Cdim/
F#,Cdim7,Cm/C#,Cm/D,Cm/F,Cm/G,Cm/F#,Cm7/11,Cmaj7,Csus,Csus2,Csus2,Csus2/
B,Csus2/C#,Csus2/D,Csus2/C#,Csus2/D#,Csus2/F,Csus2/G,Csus2/
F#,Csus,Csus4,Csus4/B,Csus,Csus4/C#,Csus4/F,Csus4/G,Csus4/F#,C#,C#/F,C#/
G#,C#(add9),C#9,C#(#5),C#5+,C#6,C#6/G#,C#6/9,C#(6/9)/F,C#(6/9)/
G#,C#7M,C#7+,C#7M/G#,C#7M/F,C#7M(#5),C#7M5+,C#7+(#5),C#7M(#5)/
F,C#7M(6),C#7M(9),C#7M(9)/F,C#7M(6/9),C#7M(9)/C,C#7M(9)/
G#,C#7M(#11),C#7M(#11)/G#,C#7M(9/#11),C#7M(9/#11)/G#,C#m,C#m/E,C#m/
G#,C#m(add9),C#m6,C#m6/G#,C#m6/E,C#m6/9,C#m(6/9)/E,C#m7,C#m7/G#,C#m/
B,C#m7(9),C#m7(9)/G#,C#m7(b5),Em/
D,C#m7(11),C#m7(9/11),C#m(7M),C#m7M,C#m7+,C#m(7M/6),C#m7M/6,C#4,C#7,C#7/
F,C#7/G#,C#/B,C#7(b5),C#7/5-,C#7/b5,C#7(#11),C#7/#11,C#7/11+,C#7(b5)/
F,C#7(-5)/F,C#7(9/#11),C#7(#11/13),C#7(#5),C#7/
#5,C#7/5+,C#7(b13),C#7/13-,C#7(#5)/B,C#7(#5)/F,C#7(b13)/B,C#7(b13)/
F,C#7(#5/9),C#7(13),C#7/13,C#7(9),C#7/9,C#7(9/13),C#7(b9),C#7/9-,C#7(#5/
b9),C#7(b9/13),C#7(b9/13),C#7(#9),C#7/9+,C#7(#9)/G#,C#7(#5/#9),C#7(#9/
#11),C#7(b5/#9),C#7/4,C#7sus4,C#7/4/9,B/C#,C#7/4/13,C#7(4/9/13),C#7/4/
b9,C#í,C#dim,C#í/b13,C#í/7M,A#m/G#,A#m/G,A#m/F#,A#m/F,F#/A#,G#/A#,F#/G#,C#/
C,C#/D#,C#/G#,C#/G,C#6/7,C#7/11,C#7sus4,C#aug/D#,C#aug/G#,C#dim/C,C#dim/
F,C#dim/F#,C#dim/G#,C#dim/G,C#dim7,C#m/D,C#m/D#,C#m/F#,C#m/G#,C#m/
G,C#m7/11,C#maj7,C#sus,C#sus2,C#sus2,C#sus2/C,C#sus2/D,C#sus2/D#,C#sus2/
D,C#sus2/E,C#sus2/F#,C#sus2/G#,C#sus2/G,C#sus,C#sus4,C#sus4/C,C#sus,C#sus4/
D,C#sus4/F#,C#sus4/G#,C#sus4/G,Db,Db/F,Db/
Ab,Db(add9),Db9,Db(#5),Db5+,Db6,Db6/Ab,Db6/9,Db(6/9)/F,Db(6/9)/
Ab,Db7M,Db7+,Db7M/Ab,Db7M/F,Db7M(#5),Db7M5+,Db7+(#5),Db7M(#5)/
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F,Db7M(6),Db7M(9),Db7M(9)/F,Db7M(6/9),Db7M(9)/C,Db7M(9)/
Ab,Db7M(#11),Db7M(#11)/Ab,Db7M(9/#11),Db7M(9/#11)/Ab,Dbm,Dbm/E,Dbm/
Ab,Dbm(add9),Dbm6,Dbm6/Ab,Dbm6/E,Dbm6/9,Dbm(6/9)/E,Dbm7,Dbm7/Ab,Dbm/
B,Dbm7(9),Dbm7(9)/Ab,Dbm7(b5),Em/
D,Dbm7(11),Dbm7(9/11),Dbm(7M),Dbm7M,Dbm7+,Dbm(7M/6),Dbm7M/6,Db4,Db7,Db7/
F,Db7/Ab,Db/B,Db7(b5),Db7/5-,Db7/b5,Db7(#11),Db7/#11,Db7/11+,Db7(b5)/
F,Db7(-5)/F,Db7(9/#11),Db7(#11/13),Db7(#5),Db7/
#5,Db7/5+,Db7(b13),Db7/13-,Db7(#5)/B,Db7(#5)/F,Db7(b13)/B,Db7(b13)/
F,Db7(#5/9),Db7(13),Db7/13,Db7(9),Db7/9,Db7(9/13),Db7(b9),Db7/9-,Db7(#5/
b9),Db7(b9/b13),Db7(b9/13),Db7(#9),Db7/9+,Db7(#9)/Ab,Db7(#5/#9),Db7(#9/
#11),Db7(b5/#9),Db7/4,Db7sus4,Db7/4/9,B/Db,Db7/4/13,Db7(4/9/13),Db7/4/
b9,Dbí,Dbdim,Dbí/b13,Dbí/7M,Bbm/Ab,Bbm/G,Bbm/Gb,Bbm/F,Gb/Bb,Ab/Bb,Gb/Ab,Db/
C,Db/Eb,Db/Ab,Db/G,Db6/7,Db7/11,Db7sus4,Dbaug/Eb,Dbaug/Ab,Dbdim/C,Dbdim/
F,Dbdim/Gb,Dbdim/Ab,Dbdim/G,Dbdim7,Dbm/D,Dbm/Eb,Dbm/Gb,Dbm/Ab,Dbm/
G,Dbm7/11,Dbmaj7,Dbsus,Dbsus2,Dbsus2,Dbsus2/C,Dbsus2/D,Dbsus2/Eb,Dbsus2/
D,Dbsus2/E,Dbsus2/Gb,Dbsus2/Ab,Dbsus2/G,Dbsus,Dbsus4,Dbsus4/C,Dbsus,Dbsus4/
D,Dbsus4/Gb,Dbsus4/Ab,Dbsus4/G,D,D/F#,D/A,D(add9),D9,D(#5),D5+,D6,D6/
A,D6/9,D(6/9)/F#,D(6/9)/A,D7M,D7+,D7M/A,D7M/F#,D7M(#5),D7M5+,D7+
(#5),D7M(#5)/F#,D7M(6),D7M(9),D7M(9)/F#,D7M(6/9),D7M(9)/C#,D7M(9)/
A,D7M(#11),D7M(#11)/A,D7M(9/#11),D7M(9/#11)/A,Dm,Dm/F,Dm/
A,Dm(add9),Dm6,Dm6/A,Dm6/F,Dm6/9,Dm(6/9)/F,Dm7,Dm7/A,Dm/C,Dm7(9),Dm7(9)/
A,Dm7(b5),Em/D#,Dm7(11),Dm7(9/11),Dm(7M),Dm7M,Dm7+,Dm(7M/6),Dm7M/
6,D4,D7,D7/F#,D7/A,D/C,D7(b5),D7/5-,D7/b5,D7(#11),D7/#11,D7/11+,D7(b5)/
F#,D7(-5)/F#,D7(9/#11),D7(#11/13),D7(#5),D7/#5,D7/5+,D7(b13),D7/13-,D7(#5)/
C,D7(#5)/F#,D7(b13)/C,D7(b13)/
F#,D7(#5/9),D7(13),D7/13,D7(9),D7/9,D7(9/13),D7(b9),D7/9-,D7(#5/b9),D7(b9/
b13),D7(b9/13),D7(#9),D7/9+,D7(#9)/A,D7(#5/#9),D7(#9/#11),D7(b5/
#9),D7/4,D7sus4,D7/4/9,B/D,D7/4/13,D7(4/9/13),D7/4/b9,Dí,Ddim,Dí/b13,Dí/
7M,A#m/A,A#m/G#,A#m/G,A#m/F,F#/A#,G#/A#,F#/G#,D/C#,D/E,D/A,D/
G#,D6/7,D7/11,D7sus4,Daug/E,Daug/A,Ddim/C#,Ddim/F#,Ddim/G,Ddim/A,Ddim/
G#,Ddim7,Dm/D#,Dm/E,Dm/G,Dm/A,Dm/G#,Dm7/11,Dmaj7,Dsus,Dsus2,Dsus2,Dsus2/
C#,Dsus2/D#,Dsus2/E,Dsus2/D#,Dsus2/F,Dsus2/G,Dsus2/A,Dsus2/
G#,Dsus,Dsus4,Dsus4/C#,Dsus,Dsus4/D#,Dsus4/G,Dsus4/A,Dsus4/G#,D#,D#/G,D#/
A#,D#(add9),D#9,D#(#5),D#5+,D#6,D#6/A#,D#6/9,D#(6/9)/G,D#(6/9)/
A#,D#7M,D#7+,D#7M/A#,D#7M/G,D#7M(#5),D#7M5+,D#7+(#5),D#7M(#5)/
G,D#7M(6),D#7M(9),D#7M(9)/G,D#7M(6/9),D#7M(9)/D,D#7M(9)/
A#,D#7M(#11),D#7M(#11)/A#,D#7M(9/#11),D#7M(9/#11)/A#,D#m,D#m/F#,D#m/
A#,D#m(add9),D#m6,D#m6/A#,D#m6/G,D#m6/9,D#m(6/9)/F#,D#m7,D#m7/A#,D#m/
C#,D#m7(9),D#m7(9)/A#,D#m7(b5),Fm/
E,D#m7(11),D#m7(9/11),D#m(7M),D#m7M,D#m7+,D#m(7M/6),D#m7M/6,D#4,D#7,D#7/
G,D#7/A#,D#/C#,D#7(b5),D#7/5-,D#7/b5,D#7(#11),D#7/#11,D#7/11+,D#7(b5)/
G,D#7(-5)/G,D#7(9/#11),D#7(#11/13),D#7(#5),D#7/
#5,D#7/5+,D#7(b13),D#7/13-,D#7(#5)/C#,D#7(#5)/G,D#7(b13)/C#,D#7(b13)/
G,D#7(#5/9),D#7(13),D#7/13,D#7(9),D#7/9,D#7(9/13),D#7(b9),D#7/9,D#7(#5/
b9),D#7(b9/b13),D#7(b9/13),D#7(#9),D#7/9+,D#7(#9)/A#,D#7(#5/#9),D#7(#9/
#11),D#7(b5/#9),D#7/4,D#7sus4,D#7/4/9,B/D#,D#7/4/13,D#7(4/9/13),D#7/4/
b9,D#í,D#dim,D#í/b13,D#í/7M,A#m/A#,A#m/A,A#m/G#,A#m/F#,G/B,A/B,G/A,D#/D,D#/
F,D#/A#,D#/A,D#6/7,D#7/11,D#7sus4,D#aug/F,D#aug/A#,D#dim/D,D#dim/G,D#dim/
G#,D#dim/A#,D#dim/A,D#dim7,D#m/E,D#m/F,D#m/G#,D#m/A#,D#m/
A,D#m7/11,D#maj7,D#sus,D#sus2,D#sus2,D#sus2/D,D#sus2/E,D#sus2/F,D#sus2/
F#,D#sus2/G#,D#sus2/A#,D#sus2/A,D#sus,D#sus4,D#sus4/D,D#sus,D#sus4/
E,D#sus4/G#,D#sus4/A#,D#sus4/A,Eb,Eb/G,Eb/
Bb,Eb(add9),Eb9,Eb(#5),Eb5+,Eb6,Eb6/Bb,Eb6/9,Eb(6/9)/G,Eb(6/9)/
Bb,Eb7M,Eb7+,Eb7M/Bb,Eb7M/G,Eb7M(#5),Eb7M5+,Eb7+(#5),Eb7M(#5)/
G,Eb7M(6),Eb7M(9),Eb7M(9)/G,Eb7M(6/9),Eb7M(9)/D,Eb7M(9)/
Bb,Eb7M(#11),Eb7M(#11)/Bb,Eb7M(9/#11),Eb7M(,9/#11)/BbEbm,Ebm/Gb,Ebm/
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Bb,Ebm(add9),Ebm6,Ebm6/Bb,Ebm6/G,Ebm6/9,Ebm(6/9)/Gb,Ebm7,Ebm7/Bb,Ebm/
Db,Ebm7(9),Ebm7(9)/Bb,Ebm7(b5),Fm/
E,Ebm7(11),Ebm7(9/11),Ebm(7M),Ebm7M,Ebm7+,Ebm(7M/6),Ebm7M/6,Eb4,Eb7,Eb7/
G,Eb7/Bb,Eb/Db,Eb7(b5),Eb7/5-,Eb7/b5,Eb7(#11),Eb7/#11,Eb7/11+,Eb7(b5)/
G,Eb7(-5)/G,Eb7(9/#11),Eb7(#11/13),Eb7(#5),Eb7/
#5,Eb7/5+,Eb7(b13),Eb7/13-,Eb7(#5)/Db,Eb7(#5)/G,Eb7(b13)/Db,Eb7(b13)/
G,Eb7(#5/9),Eb7(13),Eb7/13,Eb7(9),Eb7/9,Eb7(9/13),Eb7(b9),Eb7/9-,Eb7(#5/
b9),Eb7(b9/b13),Eb7(b9/13),Eb7(#9),Eb7/9+,Eb7(#9)/Bb,Eb7(#5/#9),Eb7(#9/
#11),Eb7(b5/#9),Eb7/4,Eb7sus4,Eb7/4/9,B/Eb,Eb7/4/13,Eb7(4/9/13),Eb7/4/
b9,Ebí,Ebdim,Ebí/b13,Ebí/7M,Bbm/Bb,Bbm/A,Bbm/Ab,Bbm/Gb,G/B,A/B,G/A,Eb/D,Eb/
F,Eb/Bb,Eb/A,Eb6/7,Eb7/11,Eb7sus4,Ebaug/F,Ebaug/Bb,Ebdim/D,Ebdim/G,Ebdim/
Ab,Ebdim/Bb,Ebdim/A,Ebdim7,Ebm/E,Ebm/F,Ebm/Ab,Ebm/Bb,Ebm/
A,Ebm7/11,Ebmaj7,Ebsus,Ebsus2,Ebsus2,Ebsus2/D,Ebsus2/E,Ebsus2/F,Ebsus2/
Gb,Ebsus2/Ab,Ebsus2/Bb,Ebsus2/A,Ebsus,Ebsus4,Ebsus4/D,Ebsus,Ebsus4/
E,Ebsus4/Ab,Ebsus4/Bb,Ebsus4/A,E,E/G#,E/B,E(add9),E9,E(#5),E5+,E6,E6/
B,E6/9,E(6/9)/G#,E(6/9)/B,E7M,E7+,E7M/B,E7M/G#,E7M(#5),E7M5+,E7+
(#5),E7M(#5)/G#,E7M(6),E7M(9),E7M(9)/G#,E7M(6/9),E7M(9)/D#,E7M(9)/
B,E7M(#11),E7M(#11)/B,E7M(9/#11),E7M(9/#11)/B,Em,Em/G,Em/
B,Em(add9),Em6,Em6/B,Em6/G#,Em6/9,Em(6/9)/G,Em7,Em7/B,Em/D,Em7(9),Em7(9)/
B,Em7(b5),Fm/E,Em7(11),Em7(9/11),Em(7M),Em7M,Em7+,Em(7M/6),Em7M/6,E4,E7,E7/
G#,E7/B,E/D,E7(b5),E7/5-,E7/b5,E7(#11),E7/#11,E7/11+,E7(b5)/G#,E7(-5)/
G#,E7(9/#11),E7(#11/13),E7(#5),E7/#5,E7/5+,E7(b13),E7/13,E7(#5)/D,E7(#5)/
G#,E7(b13)/D,E7(b13)/
G#,E7(#5/9),E7(13),E7/13,E7(9),E7/9,E7(9/13),E7(b9),E7/9-,E7(#5/b9),E7(b9/
b13),E7(b9/13),E7(#9),E7/9+,E7(#9)/A#,E7(#5/#9),E7(#9/#11),E7(b5/
#9),E7/4,E7sus4,E7/4/9,B/E,E7/4/13,E7(4/9/13),E7/4/b9,Eí,Edim,Eí/b13,Eí/
7M,A#m/G,A#m/A#,A#m/A,A#m/G,G#/C,A#/C,G#/A#,E/D#,E/F#,E/B,E/
A#,E6/7,E7/11,E7sus4,Eaug/F#,Eaug/B,Edim/D#,Edim/G#,Edim/A,Edim/B,Edim/
A#,Edim7,Em/f,Em/F#,Em/A,Em/B,Em/A#,Em7/11,Emaj7,Esus,Esus2,Esus2,Esus2/
D#,Esus2/F,Esus2/F#,Esus2/G,Esus2/A,Esus2/B,Esus2/A#,Esus,Esus4,Esus4/
D#,Esus,Esus4/F,Esus4/A,Esus4/B,Esus4/A#,F,F/A,F/
C,F(add9),F9,F(#5),F5+,F6,F6/C,F6/9,F(6/9)/A,F(6/9)/C,F7M,F7+,F7M/C,F7M/
A,F7M(#5),F7M5+,F7+(#5),F7M(#5)/A,F7M(6),F7M(9),F7M(9)/A,F7M(6/9),F7M(9)/
E,F7M(9)/C,F7M(#11),F7M(#11)/C,F7M(9/#11),F7M(9/#11)/C,Fm,Fm/G#,Fm/
C,Fm(add9),Fm6,Fm6/C,Fm6/A,Fm6/9,Fm(6/9)/G#,Fm7,Fm7/C,Fm/D#,Fm7(9),Fm7(9)/
C,Fm7(b5),Fm/F#,Fm7(11),Fm7(9/11),Fm(7M),Fm7M,Fm7+,Fm(7M/6),Fm7M/
6,F4,F7,F7/A,F7/C,F/D#,F7(b5),F7/5-,F7/b5,F7(#11),F7/#11,F7/11+,F7(b5)/
A,F7(-5)/A,F7(9/#11),F7(#11/13),F7(#5),F7/#5,F7/5+,F7(b13),F7/13,F7(#5)/
D#,F7(#5)/A,F7(b13)/D#,F7(b13)/
A,F7(#5/9),F7(13),F7/13,F7(9),F7/9,F7(9/13),F7(b9),F7/9-,F7(#5/b9),F7(b9/
b13),F7(b9/13),F7(#9),F7/9+,F7(#9)/B,F7(#5/#9),F7(#9/#11),F7(b5/
#9),F7/4,F7sus4,F7/4/9,B/F,F7/4/13,F7(4/9/13),F7/4/b9,Fí,Fdim,Fí/b13,Fí/
7M,A#m/G#,A#m/B,A#m/A#,A#m/G#,A/C#,B/C#,A/B,F/E,F/G,F/C,F/
B,F6/7,F7/11,F7sus4,Faug/G,Faug/C,Fdim/E,Fdim/A,Fdim/A#,Fdim/C,Fdim/
B,Fdim7,Fm/F#,Fm/G,Fm/A#,Fm/C,Fm/B,Fm7/11,Fmaj7,Fsus,Fsus2,Fsus2,Fsus2/
E,Fsus2/F#,Fsus2/G,Fsus2/G#,Fsus2/A#,Fsus2/C,Fsus2/B,Fsus,Fsus4,Fsus4/
E,Fsus,Fsus4/F#,Fsus4/A#,Fsus4/C,Fsus4/B,F#,F#/A#,F#/
C#,F#(add9),F#9,F#(#5),F#5+,F#6,F#6/C#,F#6/9,F#(6/9)/A#,F#(6/9)/
C3,F#7M,F#7+,F#7M/C#,F#7M/A#,F#7M(#5),F#7M5+,F#7+(#5),F#7M(#5)/
A#,F#7M(6),F#7M(9),F#7M(9)/A#,F#7M(6/9),F#7M(9)/F,F#7M(9)/
C#,F#7M(#11),F#7M(#11)/C#,F#7M(9/#11),F#7M(9/#11)/C#,F#m,F#m/A,F#m/
C#,F#m(add9),F#m6,F#m6/C#,F#m6/A#,F#m6/9,F#m(6/9)/A,F#m7,F#m7/C#,F#m/
E,F#m7(9),F#m7(9)/C#,F#m7(b5),F#m/
G,F#m7(11),F#m7(9/11),F#m(7M),F#m7M,F#m7+,F#m(7M/6),F#m7M/6,F#4,F#7,F#7/
A#,F#7/C#,F#/E,F#7(b5),F#7/5-,F#7/b5,F#7(#11),F#7/#11,F#7/11+,F#7(b5)/
A#,F#7(-5)/A#,F#7(9/#11),F#7(#11/13),F#7(#5),F#7/
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#5,F#7/5+,F#7(b13),F#7/13-,F#7(#5)/E,F#7(#5)/A#,F#7(b13)/E,F#7(b13)/
A#,F#7(#5/9),F#7(13),F#7/13,F#7(9),F#7/9,F#7(9/13),F#7(b9),F#7/9-,F#7(#5/
b9),F#7(b9/b13),F#7(b9/13),F#7(#9),F#7/9+,F#7(#9)/C,F#7(#5/9),F#7(#9/
#11),F#7(b5/#9),F#7/4,F#7sus4,F#7/4/9,C/F#,F#7/4/13,F#7(4/9/13),F#7/4/
b9,F#í,F#dim,F#í/b13,F#í/7M,Bm/A,Bm/C,Bm/B,Bm/A,A#/D,C/D,A#/C,F#/F,F#/
G#,F#/C#,F#/C,F#6/7,F#7/11,F#7sus4,F#aug/G#,F#aug/C#,F#dim/F,F#dim/
A#,F#dim/B,F#dim/C#,F#dim/C,F#dim7,F#m/G,F#m/G#,F#m/B,F#m/C#,F#m/
C,F#m7/11,F#maj7,F#sus,F#sus2,F#sus2,F#sus2/F,F#sus2/G,F#sus2/G#,F#sus2/
A,F#sus2/B,F#sus2/C#,F#sus2/C,F#sus,F#sus4,F#sus4/F,F#sus,F#sus4/G,F#sus4/
B,F#sus4/C#,F#sus4/C,Gb,Gb/Bb,Gb/Db,Gb(add9),Gb9,Gb(#5),Gb5+,Gb6,Gb6/
Db,Gb6/9,Gb(6/9)/Bb,Gb(6/9)/C3,Gb7M,Gb7+,Gb7M/Db,Gb7M/
Bb,Gb7M(#5),Gb7M5+,Gb7+(#5),Gb7M(#5)/Bb,Gb7M(6),Gb7M(9),Gb7M(9)/
Bb,Gb7M(6/9),Gb7M(9)/F,Gb7M,(9)/DbGb7M(#11),Gb7M(#11)/Db,Gb7M(9/
#11),Gb7M(9/#11)/Db,Gbm,Gbm/A,Gbm/Db,Gbm(add9),G,bm6Gbm6/Db,Gbm6/
Bb,Gbm6/9,Gbm(6/9)/A,Gbm7,Gbm7/Db,Gbm/E,Gbm7(9),Gbm7(9)/Db,Gbm7(b5),Gbm/
G,Gbm7(11),Gbm7(9/11),Gbm(7M),Gbm7M,Gbm7+,Gbm(7M/6),Gbm7M/6,Gb4,Gb7,Gb7/
Bb,Gb7/Db,Gb/E,Gb7(b5),Gb7/5-,Gb7/b5,Gb7(#11),Gb7/#11,Gb7/11+,Gb7(b5)/
Bb,Gb7(-5)/Bb,Gb7(9/#11),Gb7(#11/13),Gb7(#5),Gb7/
#5,Gb7/5+,Gb7(b13),Gb7/13-,Gb7(#5)/E,Gb7(#5)/Bb,Gb7(b13)/E,Gb7(b13)/
Bb,Gb7(#5/9),Gb7(13),Gb7/13,Gb7(9),Gb7/9,Gb7(9/13),Gb7(b9),Gb7/9-,Gb7(#5/
b9),Gb7(b9/b13),Gb7(b9/13),Gb7(#9),Gb7/9+,Gb7(#9)/C,Gb7(#5/#9),Gb7(#9/
#11),Gb7(b5/#9),Gb7/4,Gb7sus4,Gb7/4/9,C/Gb,Gb7/4/13,Gb7(4/9/13),Gb7/4/
b9,Gbí,Gbdim,Gbí/b13,Gbí/7M,Bm/A,Bm/C,Bm/B,Bm/A,Bb/D,C/D,Bb/C,Gb/F,Gb/
Ab,Gb/Db,Gb/C,Gb6/7,Gb7/11,Gb7sus4,Gbaug/Ab,Gbaug/Db,Gbdim/F,Gbdim/
Bb,Gbdim/B,Gbdim/Db,Gbdim/C,Gbdim7,Gbm/G,Gbm/Ab,Gbm/B,Gbm/Db,Gbm/
C,Gbm7/11,Gbmaj7,Gbsus,Gbsus2,Gbsus2,Gbsus2/F,Gbsus2/G,Gbsus2/Ab,Gbsus2/
A,Gbsus2/B,Gbsus2/Db,Gbsus2/C,Gbsus,Gbsus4,Gbsus4/F,Gbsus,Gbsus4/G,Gbsus4/
B,Gbsus4/Db,Gbsus4/C,G,G/B,G/D,G(add9),G9,G(#5),G5+,G6,G6/D,G6/9,G(6/9)/
B,G(6/9)/D,G7M,G7+,G7M/D,G7M/B,G7M(#5),G7M5+,G7+(#5),G7M(#5)/
B,G7M(6),G7M(9),G7M(9)/B,G7M(6/9),G7M(9)/F#,G7M(9)/D,G7M(#11),G7M(#11)/
D,G7M(9/#11),G7M(9/#11)/D,Gm,Gm/A#,Gm/D,Gm(add9),Gm6,Gm6/D,Gm6/
B,Gm6/9,Gm(6/9)/A#,Gm7,Gm7/D,Gm/F,Gm7(9),Gm7(9)/D,Gm7(b5),Gm/
G,Gm7(11),Gm7(9/11),Gm(7M),Gm7M,Gm7+,Gm(7M/6),Gm7M/6,G4,G7,G7/B,G7/D,G/
F,G7(b5),G7/5-,G7/b5,G7(#11),G7/#11,G7/11+,G7(b5)/B,G7(-5)/B,G7(9/
#11),G7(#11/13),G7(#5),G7/#5,G7/5+,G7(b13),G7/13-,G7(#5)/F,G7(#5)/
B,G7(b13)/F,G7(b13)/
B,G7(#5/9),G7(13),G7/13,G7(9),G7/9,G7(9/13),G7(b9),G7/9-,G7(#5/b9),G7(b9/
b13),G7(b9/13),G7(#9),G7/9+,G7(#9)/C#,G7(#5/#9),G7(#9/#11),G7(b5/
#9),G7/4,G7sus4,G7/4/9,C#/G#,G7/4/13,G7(4/9/13),G7/4/b9,Gí,Gdim,Gí/b13,Gí/
7M,Cm/A#,Cm/C#,Cm/C,Cm/A#,B/D#,C#/D#,B/C#,G/F#,G/A,G/D,G/
C#,G6/7,G7/11,G7sus4,Gaug/A,Gaug/D,Gdim/F#,Gdim/B,Gdim/C,Gdim/D,Gdim/
C#,Gdim7,Gm/G#,Gm/A,Gm/C,Gm/D,Gm/C#,Gm7/11,Gmaj7,Gsus,Gsus2,Gsus2,Gsus2/
F#,Gsus2/G#,Gsus2/A,Gsus2/A#,Gsus2/C,Gsus2/D,Gsus2/C#,Gsus,Gsus4,Gsus4/
F#,Gsus,Gsus4/G#,Gsus4/C,Gsus4/D,Gsus4/C#,G#,G#/C,G#/
D#,G#(add9),G#9,G#(#5),G#5+,G#6,G#6/D#,G#6/9,G#(6/9)/C,G#(6/9)/
D#,G#7M,G#7+,G#7M/D#,G#7M/C,G#7M(#5),G#7M5+,G#7+(#5),G#7M(#5)/
C,G#7M(6),G#7M(9),G#7M(9)/C,G#7M(6/9),G#7M(9)/G,G#7M(9)/
D#,G#7M(#11),G#7M(#11)/D#,G#7M(9/#11),G#7M(9/#11)/D#,G#m,G#m/B,G#m/
D#,G#m(add9),G#m6,G#m6/D#,G#m6/C,G#m6/9,G#m(6/9)/B,G#m7,G#m7/D#,G#m/
F#,G#m7(9),G#m7(9)/D#,G#m7(b5),G#m/
A,G#m7(11),G#m7(9/11),G#m(7M),G#m7M,G#m7+,G#m(7M/6),G#m7M/6,G#4,G#7,G#7/
C,G#7/D#,G#/F#,G#7(b5),G#7/5-,G#7/b5,G#7(#11),G#7/#11,G#7/11+,G#7(b5)/
C,G#7(-5)/C,G#7(9/#11),G#7(#11/13),G#7(#5),G#7/
#5,G#7/5+,G#7(b13),G#7/13-,G#7(#5)/F#,G#7(#5)/C,G#7(b13)/F#,G#7(b13)/
C,G#7(#5/9),G#7(13),G#7/13,G#7(9),G#7/9,G#7(9/13),G#7(b9),G#7/9-,G#7(#5/
b9),G#7(b9/b13),G#7(b9/13),G#7(#9),G#7/9+,G#7(#9)/D,G#7(#5/#9),G#7(#9/
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#11),G#7(b5/#9),G#7/4,G#7sus4,G#7/4/9,C#/A,G#7/4/13,G#7(4/9/13),G#7/4/
b9,G#í,G#dim,G#í/b13,G#í/7M,Cm/B,Cm/D,Cm/C#,Cm/B,B/E,C#/E,B/D,G#/G,G#/
A#,G#/D#,G#/D,G#6/7,G#7/11,G#7sus4,G#aug/A#,G#aug/D#,G#dim/G,G#dim/C,G#dim/
C#,G#dim/D#,G#dim/D,G#dim7,G#m/A,G#m/A#,G#m/C#,G#m/D#,G#m/
D,G#m7/11,G#maj7,G#sus,G#sus2,G#sus2,G#sus2/G,G#sus2/A,G#sus2/A#,G#sus2/
B,G#sus2/C#,G#sus2/D#,G#sus2/D,G#sus,G#sus4,G#sus4/G,G#sus,G#sus4/A,G#sus4/
C#,G#sus4/D#,G#sus4/D,Ab,Ab/C,Ab/Eb,Ab(add9),Ab9,Ab(#5),Ab5+,Ab6,Ab6/
Eb,Ab6/9,Ab(6/9)/C,Ab(6/9)/Eb,Ab7M,Ab7+,Ab7M/Eb,Ab7M/C,Ab7M(#5),Ab7M5+,Ab7+
(#5),Ab7M(#5)/C,Ab7M(6),Ab7M(9),Ab7M(9)/C,Ab7M(6/9),Ab7M(9)/G,Ab7M(9)/
Eb,Ab7M(#11),Ab7M(#11)/Eb,Ab7M(9/#11),Ab7M(9/#11)/Eb,Abm,Abm/B,Abm/
Eb,Abm(add9),Abm6,Abm6/Eb,Abm6/C,Abm6/9,Abm(6/9)/B,Abm7,Abm7/Eb,Abm/
Gb,Abm7(9),Abm7(9)/Eb,Abm7(b5),Abm/
A,Abm7(11),Abm7(9/11),Abm(7M),Abm7M,Abm7+,Abm(7M/6),Abm7M/6,Ab4,Ab7,Ab7/
C,Ab7/Eb,Ab/Gb,Ab7(b5),Ab7/5-,Ab7/b5,Ab7(#11),Ab7/#11,Ab7/11+,Ab7(b5)/
C,Ab7(-5)/C,Ab7(9/#11),Ab7(#11/13),Ab7(#5),Ab7/
#5,Ab7/5+,Ab7(b13),Ab7/13-,Ab7(#5)/Gb,Ab7(#5)/C,Ab7(b13)/Gb,Ab7(b13)/
C,Ab7(#5/9),Ab7(13),Ab7/13,Ab7(9),Ab7/9,Ab7(9/13),Ab7(b9),Ab7/9,Ab7(#5/
b9),Ab7(b9/b13),Ab7(b9/13),Ab7(#9),Ab7/9+,Ab7(#9)/D,Ab7(#5/#9),Ab7(#9/
#11),Ab7(b5/#9),Ab7/4,Ab7sus4,Ab7/4/9,Db/A,Ab7/4/13,Ab7(4/9/13),Ab7/4/
b9,Abdim,Abí/b13,Abí/7M,Cm/B,Cm/D,Cm/Db,Cm/B,B/E,Db/E,B/D,Ab/G,Ab/Bb,Ab/
Eb,Ab/D,Ab6/7,Ab7/11,Ab7sus4,Abaug/Bb,Abaug/Eb,Abdim/G,Abdim/C,Abdim/
Db,Abdim/Eb,Abdim/D,Abdim7,Abm/A,Abm/Bb,Abm/Db,Abm/Eb,Abm/
D,Abm7/11,Abmaj7,Absus,Absus2,Absus2,Absus2/G,Absus2/A,Absus2/Bb,Absus2/
B,Absus2/Db,Absus2/Eb,Absus2/D,Absus,Absus4,Absus4/G,Absus,Absus4/A,Absus4/
Db,Absus4/Eb,Absus4/D]"
```

```swift
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    "[x, 0, x, 2, 2, 1]", "[x, 0, 2, 1, 2, 0]", "[0, 0, 2, 4, 2, 0]", "[x, 0,
    7, 6, 0, 0]", "[x, 0, 0, 2, 2, 0]", "[x, x, 0, 2, 2, 0]", "[x, x, 0, 6, 5,
    5]", "[x, x, 0, 9, 10, 9]", "[3, x, 2, 2, 2, 0]", "[x, 0, 2, 0, 2, 0]",
    "[x, 0, 2, 2, 2, 3]", "[0, 0, 2, 2, 2, 2]", "[0, x, 4, 2, 2, 0]", "[2, x,
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    5]", "[x, 0, 2, 2, x, 0]", "[5, 7, 7, x, x, 0]", "[0, 0, 2, 2, 2, 2]", "[0,
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    2, 2]", "[0, 0, 2, 0, 2, 2]", "[5, 5, 4, 0, 3, 0]", "[x, 0, 2, 0, 3, 2]",
    "[3, x, 2, 2, 2, 0]", "[x, 0, 2, 0, 2, 0]", "[x, 0, 2, 2, 2, 3]", "[1, 0,
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    2, 1]", "[4, 6, 6, 5, 4, 4]", "[x, 3, 2, 1, 1, 0]", "[x, x, 1, 2, 1, 4]",
    "[x, 8, 10 ,8 ,9, 8]", "[x, x, 1, 1, 1, 1]", "[x, x, 1, 1, 1, 2]", "[x, x,
    4, 5, 4, 4]", "[4, 6, 6, x, x, 4]", "[x, 8, 10, 8, 9, 8]", "[x, x, 1, 1, 1,
    1]", "[x, x, 1, 1, 1, 2]", "[x, x, 4, 5, 4, 4]", "[0, 2, 0, 1, 0, 0]", "[0,
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    "[x, 2, 0, 1, 0, 1]", "[x, x, 0, 1, 0, 1]", "[x, x, 3, 4, 3, 4]", "[x, x,
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3]", "[x, 0, 2, 0, 3, 0]", "[x, 0, 2, 0, 3, 3]", "[x, 0, 2, 2, 3, 3]", "[5, x, 0, 0, 3, 0]", "[x, 0, 0, 0, x, 0]", "[5, x, 4, 0, 3, 5]", "[3, x, 0, 2, 3, 2]", "[0, 2, 2, 1, 0, 0]", "[x, 7, 6, 4, 5, 0]", "[x, 3, 2, 1, 1, 0]", "[x, 0, 2, 1, 0, 0]", "[0, 2, 0, 1, 0, 0]", "[0, 2, 2, 1, 3, 0]", "[x, 2, 0, 1, 3, 0]", "[x, x, 0, 1, 0, 0]", "[0, 2, 2, 1, 2, 0]", "[x, 4, 6, 4, 5, 4]", "[0, 2, 1, 1, 0, 0]", "[0, x, 6, 4, 4, 0]", "[x, x, 1, 1, 0, 0]", "[0, 2, 2, 1, 0, 2]", "[0, x, 4, 1, 0, 0]", "[2, 2, 2, 1, 0, 0]", "[0, 0, 3, 4, 3, 4]", "[0, 2, x, x, x, 0]", "[x, 7, 9, 9, x, 0]", "[0, 2, 2, 1, 2, 0]", "[x, 4, 6, 4, 5, 4]", "[0, 2, 0, 1, 0, 0]", "[0, 2, 2, 1, 3, 0]", "[x, 2, 0, 1, 3, 0]", "[x, x, 0, 1, 0, 0]", "[x, 0, 0, 1, 0, 0]", "[0, 1, 3, 1, 3, 1]", "[0, 2, 0, 2, 0, 0]", "[0, 2, 0, 1, 0, 2]", "[2, 2, 0, 1, 0, 0]", "[0, 2, 2, 1, 0, 2]", "[0, x, 4, 1, 0, 0]", "[2, 2, 2, 1, 0, 0]", "[x, 1, 1, 3, 4, 3]", "[x, x, 1, 3, 4, 3]", "[x, x, 5, 3, 4, 3]", "[3, 2, 1, 0, 0, 3]", "[3, x, 1, 0, 0, 3]", "[x, 3, 5, 3, 4, 3]", "[x, 6, 8, 7, 8, 6]", "[x, 1, 1, 3, 2, 3]", "[x, 6, 8, 6, 8, 6]", "[x, x, 1, 3, 2, 3]", "[x, x, 5, 3, 4, 0]", "[x, 6, 8, 8, x, 6]", "[x, 3, 5, 3, 4, 3]", "[x, 1, 1, 3, 2, 3]", "[x, 6, 8, 6, 8, 6]", "[x, x, 1, 3, 2, 3]", "[3, x, 1, 0, 0, 0]", "[x, x, 1, 0, 0, 0]", "[2, x, 1, 2, 0, 2]", "[x, 0, 1, 2, 0, 2]", "[x, 2, 1, 2, 0, 2]", "[x, 2, 4, 2, 4, 2]", "[x, x, 1, 2, 1, 2]", "[x, x, 1, 2, 1, 2]", "[x, x, 4, 3, 4, 2]", "[x, x, 1, 3, 2, 2]", "[x, x, 1, 3, 2, 2]", "[x, 6, 8, 7, 8, 6]", "[x, 1, 3, 1, 4, 1]", "[x, 1, 3, 1, 4, 1]", "[x, 3, 5, 3, 5, 3]", "[3, x, 0, 3, 3, 0]", "[x, 1, 2, 0, 2, 0]", "[x, x, 2, 3, 2, 3]", "[x, x, 5, 3, 4, 0]", "[x, 1, 2, 0, 2, 0]", "[x, x, 2, 3, 2, 3]", "[0, 2, 2, 0, 0, 0]", "[3, x, 2, 0, 0, 0]", "[x, 2, 5, x, x, 0]", "[3, x, 2, 2, 0, 0]", "[x, 0, 2, 0, 0, 0]", "[x, 0, 5, 4, 5, 0]", "[0, 3, 2, 0, 0, 0]", "[x, 2, 2, 0, 1, 0]", "[x, 3, 5, 4, 5, 3]", "[0, 2, 0, 0, 0, 0]", "[0, 2, 0, 0, 3, 0]", "[0, 2, 2, 0, 3, 0]", "[0, 2, 2, 0, 3, 3]", "[x, x, 0, 12, 12, 12]", "[x, x, 0, 9, 8, 7]", "[x, x, 2, 4, 3, 3]", "[0, x, 0, 0, 0, 0]", "[x, 10, 12, 12, 12, 0]", "[0, 2, 2, 0, 2, 0]", "[3, x, 1, 0, 0, 0]", "[x, x, 1, 0, 0, 0]", "[0, 2, 2, 0, 0, 2]", "[0, 2, 4, 0, 0, 0]", "[0, x, 4, 0, 0, 0]", "[2, 2, 2, 0, 0, 0]", "[0, 2, 2, 0, 2, 0]", "[0, 2, 0, 0, 0, 0]", "[0, 2, 0, 0, 3, 0]", "[0, 2, 2, 0, 3, 0]", "[0, 2, 2, 0, 3, 3]", "[x, x, 0, 0, 0, 0]", "[x, x, 0, 12, 12, 12]", "[x, x, 0, 9, 8, 7]", "[x, x, 2, 4, 3, 3]", "[0, x, 0, 0, 0, 0]", "[x, 10, 12, 12, 12, 0]", "[3, x, 0, 3, 3, 0]", "[0, 0, 0, 0, 0, 0]", "[0, 0, 0, 0, 0, 3]", "[3, x, 0, 2, 0, 0]", "[0, 2, 0, 0, 0, 2]", "[0, 2, 0, 0, 3, 2]", "[2, 2, 0, 0, 0, 0]", "[0, 2, 1, 1, 0, 0]", "[0, x, 6, 4, 4, 0]", "[x, x, 1, 1, 0, 0]", "[0, 2, 1, 1, 0, 2]", "[4, x, 4, 4, 4, 0]", "[3, x, 1, 0, 0, 0]", "[x, x, 1, 0, 0, 0]", "[0, 6, 4, 0, 0, 0]", "[0, 0, 2, 2, 0, 0]", "[0, 0, 2, 4, 0, 0]", "[0, 2, 2, 2, 0, 0]", "[x, 0, 2, 2, 0, 0]", "[x, x, 2, 2, 0, 0]", "[7, 9, 9, x, x, 0]", "[x, 2, 4, 4, x, 0]", "[x, 0, 4, 4, 0, 0]", "[x, 2, 4, 2, 5, 2]", "[0, 2, 2, 1, 0, 2]", "[0, x, 4, 1, 0, 0]", "[2, 2, 2, 1, 0, 0]", "[x, 4, 4, 4, x, 0]", "[x, 2, 2, 4, 4, 2]", "[x, x, 4, 4, 4, 0]", "[0, 2, 2, 0, 0, 2]", "[0, 2, 4, 0, 0, 0]", "[0, x, 4, 0, 0, 0]", "[2, 2, 2, 0, 0, 0]", "[x, 0, 2, 1, 0, 0]", "[0, 0, 7, 5, 0, 0]", "[x, 3, 2, 2, 0, 0]", "[0, 2, 0, 2, 0, 0]", "[x, 2, 0, 2, 3, 0]", "[0, 0, 2, 4, 2, 0]", "[x, 0, 7, 6, 0, 0]", "[x, 2, 1, 2, 0, 0]", "[0, 0, 3, 2, 0, 0]", "[3, x, 2, 2, 0, 0]", "[x, 0, 2, 0, 0, 0]", "[x, 0, 5, 4, 5, 0]", "[x, 0, 4, 4, 0, 0]", "[x, 2, 4, 2, 5, 2]", "[1, 3, 3, 2, 1, 1]", "[x, 0, 3, 2, 1, 1]", "[x, 3, 3, 2, 1, 1]", "[x, x, 3, 2, 1, 1]", "[x, 0, 3, 2, 2, 1]", "[x, 0, x, 2, 2, 1]", "[x, 5, 7, 5, 6, 5]", "[x, x, 0, 2, 1, 1]", "[x, x, 0, 5, 6, 5]", "[0, 0, 3, 2, 1, 0]", "[1, 3, 3, 2, 1, 0]", "[1, x, 2, 2, 1, 0]", "[x, x, 2, 2, 1, 1]", "[x, x, 3, 2, 1, 0]", "[x, x, 1, 2, 1, 1]", "[x, x, 3, 5, 4, 5]", "[3, x, 3, 2, 1, 1]", "[x, x, 3, 2, 1, 3]", "[1, 3, 3, x, x, 1]", "[x, 8, 10, 10, x, x]", "[x, 5, 7, 5, 6, 5]", "[x, x, 0, 2, 1, 1]", "[x, x, 0, 5, 6, 5]", "[3, x, 0, 2, 1, 1]", "[x, x, 1, 2, 1, 1]", "[x, x, 3, 5, 4, 5]", "[3, x, 3, 2, 1, 1]", "[x, x, 3, 2, 1, 3]", "[x, x,

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```
      0, 0, 1, 0]", "[x, x, 0, 5, 5, 3]", "[x, 10, 12, 12, 13, 0]", "[x, 5, 5, 5,
      x, 0]", "[3, 3, 0, 0, 1, 1]"]*/

  class TableViewController: UITableViewController {

      //function to count number of rows in the table view
      override func tableView(_ tableView: UITableView, numberOfRowsInSection
          section: Int) -> Int {
          return songTitle.count
      }

      //function to identify row clicked and select array field based on it
      override func tableView(_ tableView: UITableView, cellForRowAt indexPath:
          IndexPath) -> UITableViewCell {
          let cell = tableView.dequeueReusableCell(withIdentifier: "cell", for:
              indexPath)
          cell.textLabel?.text = songTitle[indexPath.row]
          return cell
      }

      //function to add delete button when row is swiped
      override func tableView(_ tableView: UITableView, commit editingStyle:
          UITableViewCellEditingStyle, forRowAt indexPath: IndexPath) {
          if editingStyle == UITableViewCellEditingStyle.delete{
              //remove entry from arrays
              songTitle.remove(at: indexPath.row)
              artist.remove(at: indexPath.row)
              tableView.reloadData()
              //update entry from defaults
              let defaults = UserDefaults.standard
              defaults.set(songTitle, forKey: "SongList")
              let defaultsArtist = UserDefaults.standard
              defaultsArtist.set(artist, forKey: "Artist")
          }
      }

      override func viewDidLoad() {
          let launchedBefore = UserDefaults.standard.bool(forKey:
              "launchedBefore")
          if launchedBefore  {
              let defaults = UserDefaults.standard
              songTitle = defaults.stringArray(forKey: "SongList") ?? [String]()
              let defaultsArtist = UserDefaults.standard
              artist = defaultsArtist.stringArray(forKey: "Artist") ?? [String]()

          }
          else {
              let defaults = UserDefaults.standard
              defaults.set(songTitle, forKey: "SongList")
              let defaultsArtist = UserDefaults.standard
              defaultsArtist.set(artist, forKey: "Artist")
              UserDefaults.standard.set(true, forKey: "launchedBefore")

              //creating chordList and chordShape files
              let chordsFile = "chordsList"
              let DocDirURLforChords = try! FileManager.default.url(for: .
```

```swift
                documentDirectory, in: .userDomainMask, appropriateFor: nil,
                create: true)
            let fileURLforChords = DocDirURLforChords.appendingPathComponent
                (chordsFile).appendingPathExtension("txt")
            let writeStringforChords = String(describing: chordList)
            do{
                try writeStringforChords.write(to: fileURLforChords,
                    atomically: true, encoding: String.Encoding.utf8)
            } catch let error as NSError{
                print("Error: \(error)")
            }

            /*let chordsShapes = "chordsShapes"
            let DocDirURLforShapes = try!
                FileManager.default.url(for: .documentDirectory,
                in: .userDomainMask, appropriateFor: nil, create: true)
            let fileURLforShapes =
                DocDirURLforShapes.appendingPathComponent(chordsShapes).appendi
                ngPathExtension("txt")
            let writeStringforShapes = String(describing: chordShapes)
            do{
                try writeStringforShapes.write(to: fileURLforShapes,
                    atomically: true, encoding: String.Encoding.utf8)
            } catch let error as NSError{
              print("Error: \(error)")
            }*/

        }
    }

    //function to reload data when page is open
    override func viewDidAppear(_ animated: Bool) {
        tableView.reloadData()
    }

    //function to go to view controller when row is pressed
    override func tableView(_ tableView: UITableView, didSelectRowAt indexPath:
        IndexPath) {
        myIndex = indexPath.row
        performSegue(withIdentifier: "segue", sender: self)
    }
}
```