



Lead guitarist, Jerry Garcia, plays a blistering solo on his iconic guitar, “Tiger.” The solo includes a lick that you’ve heard him play before. Jerry has maintained some secrecy with the notes for this lick. You’re determined to figure them out.

You decide to create a scale of the notes involved. You diagram the five strings that are used for the notes. Along an adjacent side, you lay out the eight frets of the guitar where the notes are played.

You place filled-in circles for strings at frets where you have seen Jerry place his finger **on** for this lick. You place an empty circle on a string and fret location that you’ve already determined is not a note of this scale (it just sounds **off**).

Finally, you have intel on the total number of notes at each fret. You also know the total number of notes for each string. You jot all of this down.



	String 1 ↴	String 2 ↴	String 3 ↴	String 4 ↴	String 5 ↴	Total number of notes on fret ↴
Fret 1					●	3
Fret 2	○					3
Fret 3	●					3
Fret 4						2
Fret 5					●	2
Fret 6						2
Fret 7						2
Fret 8						1
Total number of notes on strings →	2	3	7	2	4	

At set-break, you chat with another concertgoer who gives you some additional insights. With this information, you think you can figure out the whole scale and Jerry’s secret will be....

- Finger positions (on/off) on fret 1 for strings 1, 2 and 3 are the same as positions on fret 3 for strings 1, 2 and 3.
- Notes in the scale at fret 4 use the same strings as the notes at fret 7.
- Notes in the scale at fret 2 appear the same reading right to left as they do reading left to right across the fret. There are two other such “palindromic” frets in the scale. None of the three palindrome frets are identical to one another.