## Основной цикл тюнера

## Инициализация массива частот

```
class var noteFrequencies: [Double] {
    // f[i] = f0 * 2^(i/12)
    // f0 is note A frequency (base note)
    var noteFrequenciesArray = [Double]()

    let firstNoteFromBase = -57
    let lastNoteFromBase = 62
    let notesInOctave = 12.0

    for i in firstNoteFromBase ... lastNoteFromBase {
        noteFrequenciesArray.append( baseFrequency * pow(2, Double(i) / notesInOctave) )
    }

    return noteFrequenciesArray
}
```