
Comparison

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Part 1 - Up Sampling

Upsampling both of the signals to their least common multiple.

```
healthy = load('..\Mandatory\Data.mat');  
sig_h = healthy.data.signal;  
fs_h = healthy.data.samplingfreq;  
ill = load('patient1.mat');  
sig_i = ill.val./1000;  
fs_i = 360;  
sig_h = upsample(sig_h, lcm(fs_h, fs_i)/fs_i);  
sig_i = upsample(sig_i, lcm(fs_h, fs_i)/fs_h);
```

Part 2 - Disease Distinguish

Since the patient has the heart rate of 35 beats per minute, he is probably involved with a heart disease. According to the resting heart rate chart, a normal person should have the heart rate between 50 bpm to 80 bpm.

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