# To run aliased_RR

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# Credit and date

Code developed by Oscar Miranda-Dominguez.

First line of documentation: November 11, 2019

# Intro

This function displays the aliased frequency in Hz of a signal in events per minute (RR_bpm). YOu also need to provide the TR in seconds

# Repo location

https://gitlab.com/Fair_lab/movement_regressors_power_plots

# Dependencies:

NO extra dependencies needed

# Basic usage

if you like to calculate the aliases respiration rate of 12, 12.5,... 25 breaths per minute at a TR of 2.2. you need to do the following:

```
RR_bpm=12:3:25;% respiration rate (RR_bpm)in breaths per minute
TR=2.2; % TR in seconds
[T,RRa_Hz] = aliased_RR(RR_bpm,TR);
```

```
Aliased frequencies at a TR of 2.2 seconds
    Resp_rate_bpm    Resp_rate_Hz    Resp_rate_aliased_Hz
    _____________    ____________    ____________________

        12.0             0.200              0.2000
        15.0             0.250              0.2045
        18.0             0.300              0.1545
        21.0             0.350              0.1045
        24.0             0.400              0.0545
```

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