**Approximated Median explained with an example**

36, 59, 12, 3, 22, 42, 27, 67, 66, 11, 31

Intervals [3], [12, 11], [22, 27], [36, 31], [42], [59], [67, 66]

[36, 31]: median interval; lower bound is 31.

N/2 : 5 Or 5.5.

Sum of the frequencies below the median interval is 1+2+2 = 5.

Frequency of the median interval is 2.

Width of the median interval is 36-31: 5.

31 + ( (5.5 -5)/2) \* 5 = 31 + 0.25 \* 5 = 32.25

Real median is here also 31.