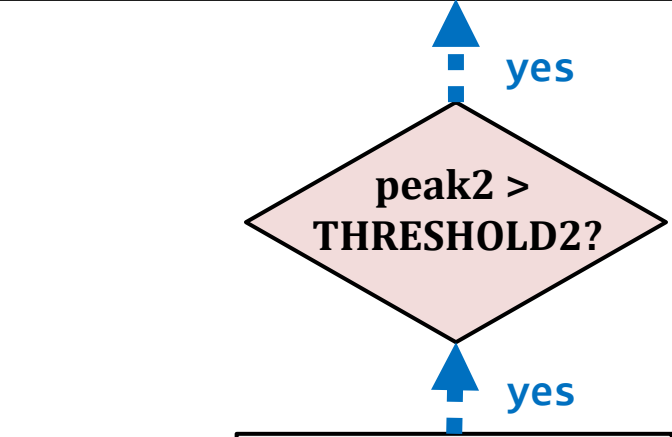


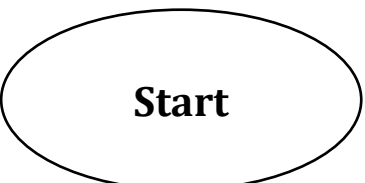
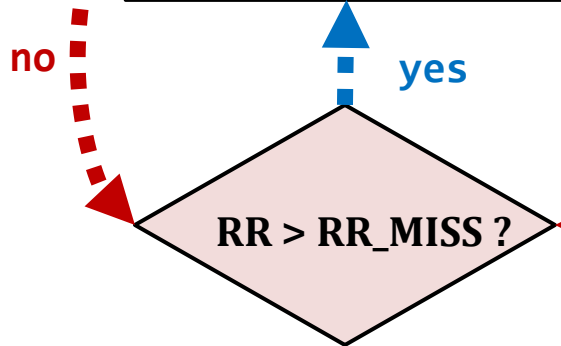
VI. updatePeak2

Store peak2 as Rpeak
 $SPKF = 0.25 * peak2 + 0.75 * SPKF$
Store RR in Recent_RR
 $RR_Average1 = \text{avg of Recent_RR}$
 $RR_LOW = 0.92 * RR_Average1$
 $RR_HIGH = 1.16 * RR_Average1$
 $RR_MISS = 1.66 * RR_Average1$
 $THRESHOLD1 = NPKF + 0.25 * (SPKF - NPKF)$
 $THRESHOLD2 = 0.5 * THRESHOLD1$



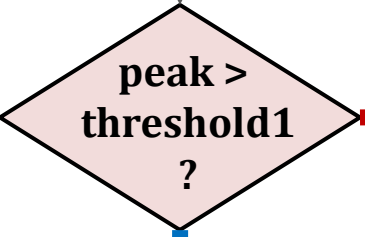
Search backwards through peaks array, return peak2

V. searchBack



Find and store peak

I. peakDetection



II. updateNotRpeak

$NPKF = 0.125 * peak + 0.875 * NPKF$
 $THRESHOLD1 = NPKF + 0.25 * (SPKF - NPKF)$
 $THRESHOLD2 = 0.5 * THRESHOLD1$

Calculate RR

III. calculateRR



IV. updatePeak1

Store peak as Rpeak
 $SPKF = 0.125 * peak + 0.875 * SPKF$
Store RR in Recent_RR_OK
Store RR in Recent_RR
 $RR_Average2 = \text{avg of Recent_RR_OK}$
 $RR_Average1 = \text{avg of Recent_RR}$
 $RR_LOW = 0.92 * RR_Average2$
 $RR_HIGH = 1.16 * RR_Average2$
 $RR_MISS = 1.66 * RR_Average2$
 $THRESHOLD1 = NPKF + 0.25 * (SPKF - NPKF)$
 $THRESHOLD2 = 0.5 * THRESHOLD1$