

P1

(1)

Approaching

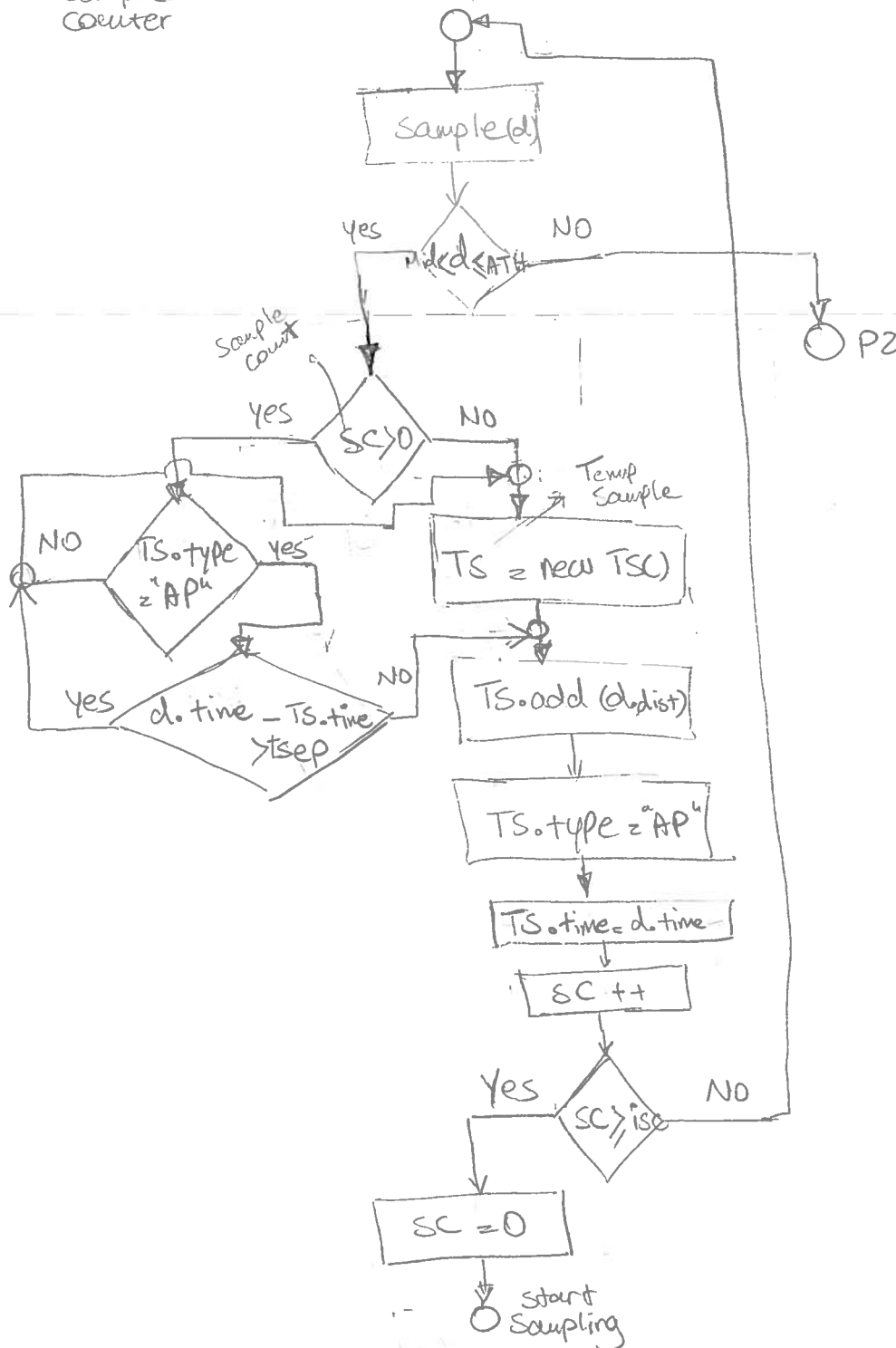
Detection threshold

 $Mid < d \leq ATH$

Motion Profile #1: P1

Sample Counter

Temp Sampling Start



P2

Departing

Detection threshold

 $Mid > d \gg DTH$

Mid → adjustable value
bw DTH & ATH

initial sample
count

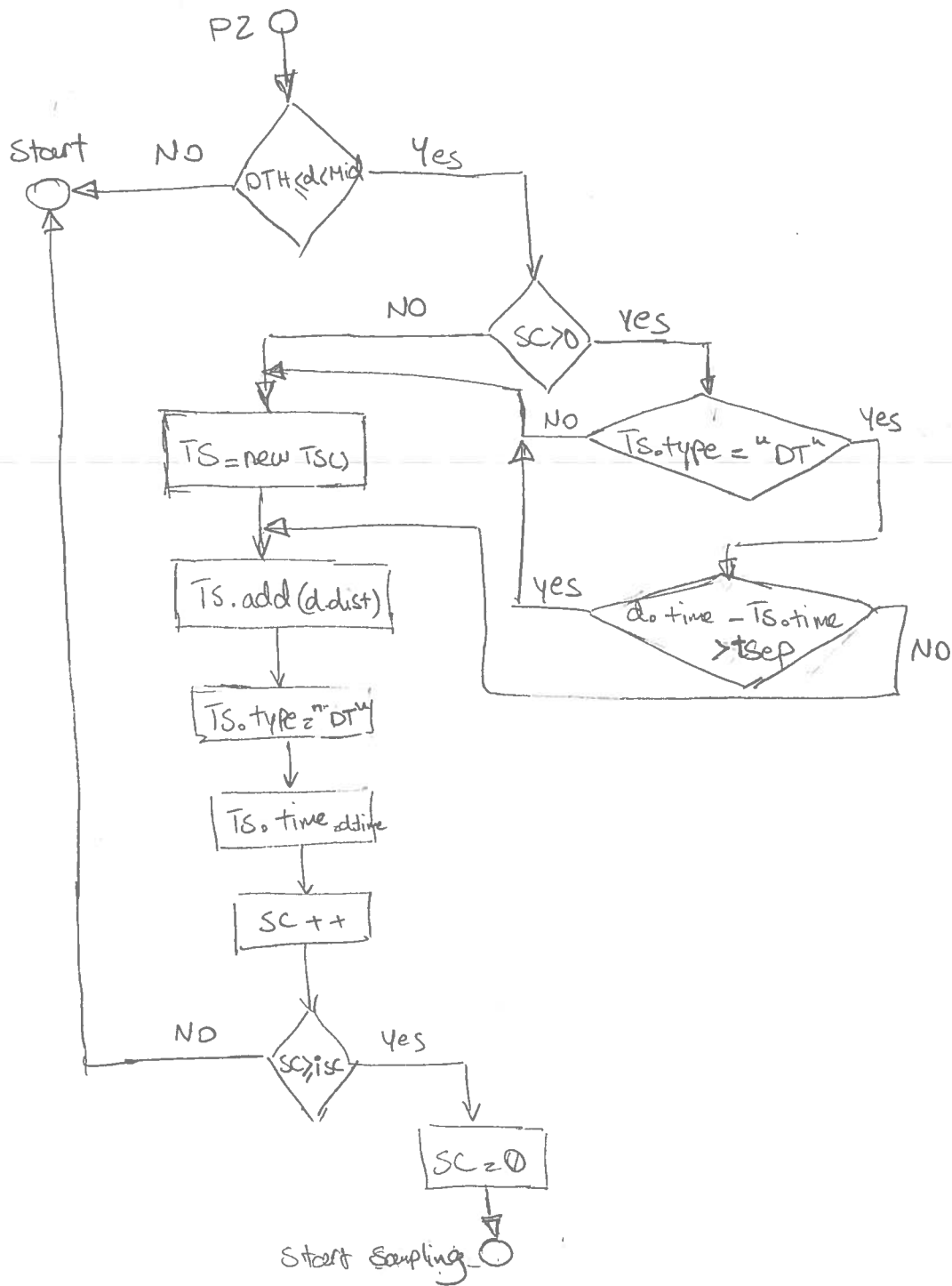
Min # of samples
required to start
a new bin
ISC → 5-10?

temp
tsep: Sample
expiration
threshold in msec.

500-1000 msec.

Motion profile #2: P2

②



Sampling

(3)

$S \rightarrow$ Sample obj

sep : sample expiration

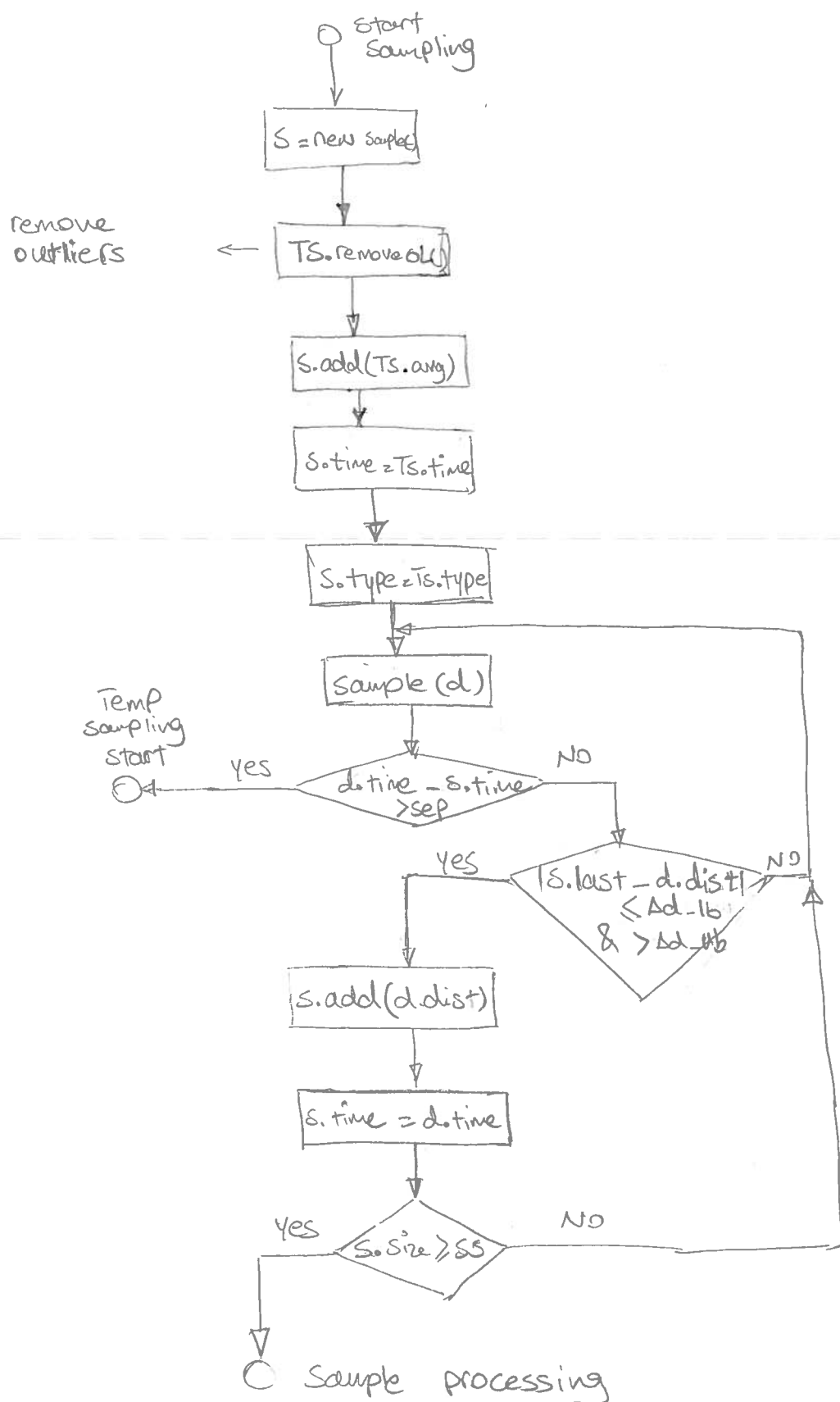
threshold

can be abit tighter than tse

moving Δd_{lb} : min movement
threshold Δd_{ub} max movement

Required
SS : sample size

20-50 ?



Sample Processing

Error flags:

- 1: Temp type \neq Sample type
- 2: Sample type unclear
- 3: Low sample size

acceptable
MSS: Min Sample Size

