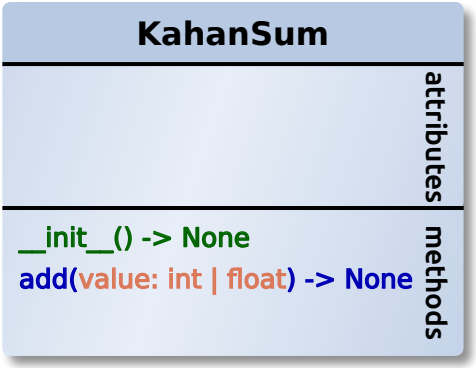
$sum \leftarrow 0; \quad cs \leftarrow 0; \quad ccs \leftarrow 0;$

for $i \in 0..n-1$ **do**

- $t \leftarrow sum + x[i];$
- **if** $|sum| \geq |x[i]|$ **then** $c \leftarrow (sum - t) + x[i];$
- **else** $c \leftarrow (x[i] - t) + sum;$
- $sum \leftarrow t;$
- $t \leftarrow cs + c;$
- **if** $|cs| \geq |c|$ **then** $cc \leftarrow (cs - t) + c;$
- **else** $c \leftarrow (c - t) + cs;$
- $cs \leftarrow t; \quad ccs \leftarrow ccs + cc;$
- **return** $sum + cs + ccs$