

```

sum  $\leftarrow$  0;  cs  $\leftarrow$  0;  ccs  $\leftarrow$  0;
for  $i \in 0..n - 1$  do
     $t \leftarrow \textit{sum} + x[i];$ 
    if  $|\textit{sum}| \geq |x[i]|$  then  $c \leftarrow (\textit{sum} - t) + x[i];$ 
    else  $c \leftarrow (x[i] - t) + \textit{sum};$ 
     $\textit{sum} \leftarrow t;$ 
     $t \leftarrow \textit{cs} + c;$ 
    if  $|\textit{cs}| \geq |c|$  then  $\textit{cc} \leftarrow (\textit{cs} - t) + c;$ 
    else  $c \leftarrow (c - t) + \textit{cs};$ 
     $\textit{cs} \leftarrow t;$    $\textit{ccs} \leftarrow \textit{ccs} + \textit{cc};$ 
return  $\textit{sum} + \textit{cs} + \textit{ccs}$ 

```

## KahanSum

attributes

methods