```
sum ← 0;   cs ← 0;   ccs ← 0;
for i ∈ 0..n − 1 do
    t ← sum + x[i];
    if |sum| ≥ |x[i]| then c ← (sum − t) + x[i];
    else c ← (x[i] − t) + sum;
    sum ← t;
    t ← cs + c;
    if |cs| ≥ |c| then cc ← (cs − t) + c;
    else c ← (c − t) + cs;
    cs ← t;   ccs ← ccs + cc;
    return sum + cs + ccs
```