
Algorithm 3.1.3 calculate sum of integers in a list

1: **procedure** SUM(a_1, a_2, \dots, a_n : list of integers)

2: $total \leftarrow 0$

3: **for** $i = 1$ **to** n **do**

4: $total \ += a_i$

5: **end for**

6: **return** $total$

7: **end procedure**

$$\triangleright total = \sum_{i=1}^n a_i$$