

3. Devise an algorithm that finds the sum of all the integers in a list.

```
procedure SUMMATION( $a_1, a_2, \dots, a_n$  : integers)
  sum :=  $a_1$ 
  for  $i := 2$  to  $n$ 
    sum := sum +  $a_i$ 
  Return sum;
```

```
 $A = \{1, 2, 3, \dots, n\}$ 
sum = 1
for  $i = 2$  to  $n$ 
  sum = sum +  $a_i$ 
return sum;
```