Sunnny drall first git File1

/\*Program to find smallest number in an array\*/

**PSEUDOCODE**

SMALLEST-POSITIVE(*A*)

1. *small\_index ← 0*
2. **if** *length[A] = 1*
3. **then Return** the only element
4. **else**
5. **for** *i← 0* **to** *length[A]*
6. **do if** *A[i] < A[small\_index]*
7. **then** *small\_index ← i*
8. **Return** *A[small\_index]*

**ALGORITHM**

**Step1**: Begin

**Step2**: If array contains only one element, then return this only element (Line 2 and 3)

**Step3**: Otherwise, in entire array find the first smallest element (Line 5,6,7)

**Step4**: Return First smallest element

**Step5**: End

**COMPLEXITY ANALYSIS**

Run-Time Complexity: *O(n)*

Space Complexity: constant 0(1)