The algpseudocode package does not have commands in its user guide/manual or instructions documentation to indicate the input and output of algorithms, heuristics, or procedures.

Algorithm 1 The Bellman-Kalaba algorithm (G, u, l, p)

```
Input: G, u, l, p
Output: Nothing
 1: procedure BellmanKalaba(G, u, l, p)
 2:
        for all v \in V(G) do
            l(v) \leftarrow \infty
 3:
 4:
        end for
        l(u) \leftarrow 0
 5:
        repeat
 6:
            for i \leftarrow 1, n do
 7:
                min \leftarrow l(v_i)
 8:
 9:
                 for j \leftarrow 1, n do
                     if min > e(v_i, v_j) + l(v_j) then
10:
                        min \leftarrow e(v_i, v_j) + l(v_j)
11:
                        p(i) \leftarrow v_j
12:
                     end if
13:
                end for
14:
                l?(i) \leftarrow min
15:
            end for
16:
            changed \leftarrow l \neq l?
17:
            l \leftarrow l?
18:
        until \neg changed
19:
        return Nothing
20:
21: end procedure
22: procedure FINDPATHBK(v, u, p)
        if v = u then
23:
            Write v
24:
        else
25:
            w \leftarrow v
26:
27:
            while w \neq u do
                 Write w
28:
29:
                 w \leftarrow p(w)
            end while
30:
31:
        end if
32: end procedure
```

Algorithm 2 Part 1

```
1: procedure BellmanKalaba(G, u, l, p)
        for all v \in V(G) do
            l(v) \leftarrow \infty
 3:
        end for
 4:
        l(u) \leftarrow 0
 5:
        repeat
 6:
 7:
            for i \leftarrow 1, n do
                 min \leftarrow l(v_i)
 8:
                 for j \leftarrow 1, n do
 9:
                     if min > e(v_i, v_j) + l(v_j) then
10:
                         min \leftarrow e(v_i, v_j) + l(v_j)
11:
12:
                                             ▶ For some reason we need to break here!
```

And we need to put some additional text between...

Algorithm 3 Part 2

```
p(i) \leftarrow v_j
13:
                        end if
14:
                  end for
15:
                  l?(i) \leftarrow min
16:
              end for
17:
              changed \leftarrow l \neq l?
18:
19:
              l \leftarrow l?
         \mathbf{until} \neg changed
20:
21: end procedure
```

Algorithm 4 A small pseudocode

```
1: s \leftarrow 0

2: p \leftarrow 0

3: for i \leftarrow 1, 10 do

4: s \leftarrow s + i

5: p \leftarrow p + s

6: end for
```