Algorithm 3.1.31 Find the first duplicate term in a sequence of integers

```
1: procedure DUPLICATE TERM(a_1, a_2, \ldots, a_n): sequence of integers)
 2:
        for index = 2 to n do
 3:
            for i = 1 to (index - 1) do
                                               \triangleright a_{index} is the first duplicate term.
               if a_i = a_{index} then
 4:
 5:
                    return a_{index}, index
                end if
 6:
            end for
 7:
        end for
 8:
                                                        \triangleright No duplicate terms exist.
 9:
        return \perp
10: end procedure
```