Tutorial 11

Exercise 1

- **sort**(A) =
  for $j := 1$ to k **do**
  $B[j] := 0$
  end for
  for $i := 1$ to n **do**
  $B[A[i]] := B[A[i]] + 1$
  end for
  $p := 1$
  for $j := 1$ to k **do**
  for $i := 1$ to $B[j]$ **do**
  $A[p] := j$
  $p := p + 1$
  end for
  end for
- There is no contradiction as the algorithm is not comparison-based.