Solution to toy block sorting

Algorithm toySort(A, start, end, colorSet)

               If ( colorSet.size() == 1) return

               LeftColorSet <- firstHalfoFColorSet

                RightColorSet <- SecondHalfoFColorSet

i  <- start

j  <- stop

                while (i <= j) do

                                while (i < stop & A[i].color is in LeftColorSet ) i++

                               while (j > start & A[j].color is in RightColorSet) j—

                                If (i  < j)

                                                swap(A, i, j)

 i++

j—

                toySort(A, start, i - 1, LeftColorSet)

                toySort(A, i, end, RightColorSet)