Homework 3: Question 1

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This algorithm would not work, because there is a subtle error : when $k = i$, $id[i]$ will change to $id[j]$, and then we will miss all the other elements who were in the same class as i, since their flag will be the old $id[i]$ not the new one. To correct this, we would have to store $id[i]$ as a *flag* variable, and then run the tests with *flag*.