Developing Iterative Algorithms

Loop invariant.	process input – go through the input elements one at a time
the first k people have been assigned to groups	loop invariant – condition true at the start of each iteration – should help establish correctness: loop invariant +
the first k people have been assigned to groups so that no one is in a group with someone they don't want to work with	
☐ there are at most d+1 groups	exit condition = final answer
the first k people have been assigned to groups so that no one is in a group with someone they don't want to work with and there	process input version – have a correct solution for the first <i>k</i> items
are at most u+1 groups	haven't gone wrong yet
have a correct solution for the first k input items	a valid solution)
haven't gone wrong yet	
have produced the first k items of the output	apply the template to the
the first k groups have been assigned people	specific problem
the first k groups have been assigned people without anyone being in a group with someone they don't want to work with	the correctness of the solution