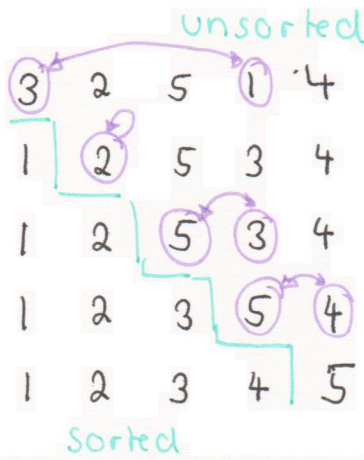
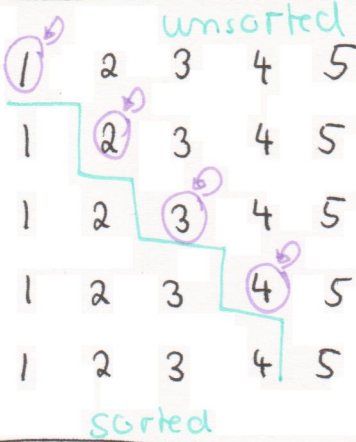


1.) See recitation I

2.) a) Sort

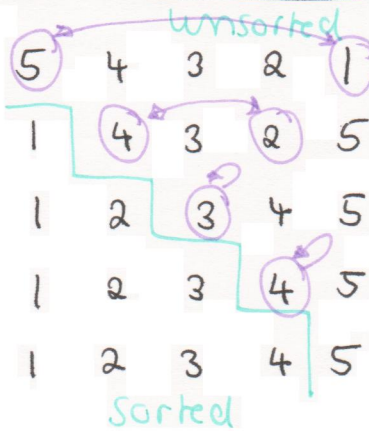


b) Sort



The algorithm will perform $n-1 = 4$ "in-place" swaps

c) Sort



- 3.) a)
- ound < uter (basis)
 - pound < puter (induction)
 - mpound < mputer (induction)
 - ompound < omputer (induction)
 - compound < computer (induction)

b)

ϵ	<	ing	(basis)
t	<	tung	(induction)
st	<	sting	(induction)
est	<	esting	(induction)
test	<	testing	(induction)

b.c)

- a is an expression (basis)
- b is an expression (basis)
- $(a+b)$ is an expression (induction)
- c is an expression (basis)
- d is an expression (basis)
- $(c-d)$ is an expression (induction)
- f is an expression (basis)
- $(c-d)+f$ is an expression (induction)
- $(a+b)/(c-d)+f$ is an expression (induction)

