//@ requires (\* x is positive \*);

/\*@ ensures (\* \result is an

@ approximation to

@ the square root of x \*)

@ && \result >= 0;

@\*/

public static double sqrt(double x) {

return Math.sqrt(x);

}

Pre and postcondition in JML language:

1. //@ requires(\*all elements in array A is the same format\*);

/\*@ ensures(\*\the elements of array A are

@ reordered to a new array where the

@ elements are in ascending order\*)

@\*/

1. /\*@ requires(\*all elements in array A are in the same format\*) && (\*Key is in the same

@ format of elements in array A\*);\*/

/\*@ ensures(\*\If founded, result is the index of the element equals searching target,

@ if not founded, returns -1\*)

@\*/

1. //@ require(\*all elements in array A is in the same format\*);

/\*@ ensures (\*If there exists an element equals Key, result is 1,

@ if not founded, returns -1\*)

@\*/

1. //@ requires(\*all elements in array A are integer\*) && (\*Key is integer\*);

/\*@ ensures(\*\If founded, result is the index of the element equals searching target,

@ if not founded, returns -1\*)

@\*/