Exam was in total 115; 15 is bonus.

(7 pts) Q1) It was about Data types.

Type

```
31+42
42.0/10+5/4
3.2d+4.3f
!(5>6)
True

(6 pts) O2) It was about again data types and assignment of these data types and if the compiler works or not
e.g.
```

Explanation

Example

Example

If the compiler works or not, if not the reason

double r=(int)4;

Q3)

a) Read the given code and explain what it is doing

```
public static boolean f(int[] data){
    if(data==null) return false;
    int i=0;
    while(i<data.length){
        if(data[i-1]>data[i]) return false;
        i++;
        }
    return true;
```

b) Implement the above code without using while or do while.

Q4) You must write a method which return "abc" if "abcabcXY", "XY" (it is an example) like string t+t+s return t

```
public static String method(String first, String s){
    }
```

If String first in the form t+t+s and the methods should return t else null

e.g

```
"xyzxyzABC" must return "xyz"
```

[&]quot;xyxyABC" must return "xy"

```
"1111111" must return "111"
"xyzxyyABC" must return null;
Q5) Writing method which return true if a char repeated three or more in an array (ex return true
for array={1 1 1 2 3}
public boolean charRepeated(String[] data){
}
Examples were like
{"1", "2", "3", "4", "5", "5" } must return false
{"1", "1", "1", "2", "3", "5"} must return true
Q6) Arrays
Q7) String and StringTokenizer
(String; String; String)
                           This part must be converted from String to int
                           In the question it says that use Integer.parseInt()
Eg. (1234; Marcus Halle; Bla Bla Publishing; Something More)
You need to printout;
ISBN: ..... (integer)
Author: ..... (String)
Publisher: .....(String)
Some other thing: ..... (String)
```

```
(15 pts)Q8) Interface
(15 pts)Q9) Collections
(15 pts)Q10) Queue
You have implement a method into Queue.java that add new element to the desired position
Public void addElem(Elem new, int pos){
}
```