Work Time: 50min

Please copy the subjects and then close your laptops.

- 1.(3p). Compare checked vs. unchecked exceptions in Java.
- 2.(3p). Given the following collection

List<Integer> numbers = Arrays.asList(1, 2, 3, 4, 5, 6, 7, 8,9,10,11,12,14,15);

Using Java functional style (Java streams),

please write a program that is doing the following operations in the following order:

- a) keep only the numbers which are multiple of 3 or multiple of 2;
- b) transform each remaining number into a string, that consists of a prefix "A", the successor of the number and the suffix "B"  $\,$
- (eg. 6 is transformed into "A7B")
- c)concatenate all the strings
- 3.(3p). What is a Cyclic Barrier in Java.