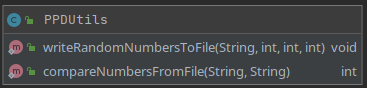
Laborator 0 - Tanislav Cosmin-Gabriel, Grup 237

**Class diagram for both tasks (in Java):**



1) Creare de fisier care contine numere intregi aleatoare dintr-un interval precizat (parametrii: file\_name; size; min; max).

**Function specification (in C++):**

/\*\*

\* Write `size` random numbers bounded by `min` and `max` to the given path.

\* @param path Path to write the random numbers to.

\* @param size Amount if numbers to write.

\* @param min Lower bound for the random numbers.

\* @param max Exclusive upper bound for the random numbers.

\*/

static void writeRandomNumbersToFile(const std::string& path, size\_t size, int min, int max);

method of generation....

**Test cases:**

1)

PPDUtils::writeRandomNumbersToFile("text.txt", 15, 1, 10);

Writes 15 random numbers between 1 and 10 (exclusive).

Contents of test.txt:

5

2

2

6

2

1

6

3

7

3

1

4

3

8

5

2) Verificare daca doua fisiere contin acelasi date (pentru date de tip: intreg, real).

**Function specification (in C++):**

/\*\*

\* Compare 2 files given their paths.

\* @param first First file path.

\* @param second Second file path.

\* @return -1 if the first file has less numbers than the second file, or the files have the same amount

\* of numbers and the number in the first file is smaller

\* 1 if the second file has less numbers than the first file, or if the files have the same amount

\* of numbers and the number in the second file is smaller

\* 0 if the files have the same numbers

\*/

static int compareNumbersFromFile(const std::string& first, const std::string& second);

**Test cases:**

PPDUtils::compareNumbersFromFile("first.txt", "second.txt");

1)

Contents of first.txt:

1

2

3

4

5.5

10.4

Contents of second.txt:

1

2

3

4

5.5

10.4

The call will return 0;

2)

Contents of first.txt:

1

2

3

4

5.5

10.4

20

Contents of second.txt:

1

2

3

4

5.5

10.4

The call will return 1;

3)

Contents of first.txt:

1

2

3

4

5.5

10.4

Contents of second.txt:

1

2

3

4

5.5

10.4

The call will return -1;