Home Assignment 4

Project template

Now you have [template (https://github.com/cubazis/inno_ansic_spring/tree/dev/assignments/ha-4)](https://github.com/cubazis/inno_ansic_spring/tree/dev/assignments/ha-4) for your first home assignment.

Project Architecture

```
src/vector.h
src/vector.c
src/vector_int.h
src/vector_int.c
tests/test_vector.c
tests/test_vector_int.c
tests/test_vector_qsort.c
```

Tasks

`tests/test_vector.c` and `tests/test_vector_int.c` are just for your independent work. Code of these tests will not be graded.

Test `tests/test_vector_qsort.c` has not complete tcase

```
START_TEST(test_vector_qsort)
{
    struct Vector *v;
    for (int i = 0; i < NELEMS(v); ++i) {
        /** Initialisation */
    }
    qsort(&v, NELEMS(v), sizeof v[0], comp_vectors_int);
    for (int i = 0; i < NELEMS(v); ++i) {
        /** printf */
    }
}
END_TEST
```

Here you should complete initialisation of vector by some unordered sequence of integers.
Then you have to use `qsort` from the `stdlib.h` to sort your vector.
For this purpose the `comp_vectors_int` have to be finished.

I wrote some initial strings of `comp_vectors_int` code to "help" you. LOL.

```c
int comp_vectors_int(const void *a, const void *b)
/* Returns -ve if a<b, 0 if a==b, +ve if a>b */
{
    struct Vector *v1 = (struct Vector *)a;
    struct Vector *v2 = (struct Vector *)b;
    /** YOUR CODE HERE */
}
```

Deadline

After **15.20 06/06** you commits will not be checked.