First homework for Architecture.

Variant:

- · Artifact 10: Well of wisdom
- Function 10: Straight insertion sort

Files:

- main.cpp(1,83KB): main function which reads, writes and catches exceptions coming from the container...
- container.cpp(1,39KB)/.h(644B): container with all the functions for containing inputted objects .
- baseLines.cpp(2,47KB)/.h(768B): basic well of wisdom structure with all the functions.
- aphorism.cpp(925B)/.h(478B): aphorism structure with all the functions.
- proverb.cpp(877B)/.h(432B): proverb structure with all the functions.
- riddle.cpp(883B)/.h(408KB): riddle structure with all the functions.

Command line input guide:

1) Write ./task01 -f [inputFileName].txt [outputFileName].txt [sortedOutputFileName].txt for file input. 2) Write ./task01 -n [number of wells of wisdom] [outputFileName].txt [sortedOutputFileName].txt for random input generation.

File input guide:

You need to input a couple of matrices according to this template:

1) Input type: 1 for aphorism, 2 for proverb, 3 for riddle. 2) Input text of artifact: line of chars with length 10.000 or less. 3) Input meta text for artifact (author name, country or riddle answer): line of chars with length 10.000 or less.

Tests:

There are 8 tests stored in tests directory, which could be used to understand if the program runs properly and tests could be autogenerated using command line.

Memory:

Stack	
main	
Init	
In / InRnd	
Out	
Sorting	
Неар	
"task"	
"-r" / "-f"	
"input00.txt"	
"output00.txt"	
"output00.txt"	
"output00.txt" "outSorted.txt"	

TT

Compoment name	Size (in bytes)
struct ridlle	80000
char fstring[10000]	40000

Compoment name	Size (in bytes)
char sstring[10000]	40000
struct aphorism	80000
char fstring[10000]	40000
char sstring[10000]	40000
struct proverb	80000
char fstring[10000]	40000
char sstring[10000]	40000
struct baseLines	80004
enum key	4
union { aphorism a;proverb p;riddle r;}	80000
struct container	800040008
enum {max_len = 10000}	4
int len	4
baseLines *cont[max_len]	800040000

Modules:

- Interface modules count: 5Implementation modules count: 6