

CPP Problem Design Example

Subject: ComputeHMS

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Main testing concept: Basic Number Operator

Basics

- ☒ C++ BASICS
- ☒ FLOW OF CONTROL
- ☐ FUNCTION BASICS
- ☐ PARAMETERS AND OVERLOADING
- ☐ ARRAYS
- ☐ STRUCTURES AND CLASSES
- ☐ CONSTRUCTORS AND OTHER TOOLS
- ☐ OPERATOR OVERLOADING, FRIENDS, AND REFERENCES
- ☐ STRINGS
- ☐ POINTERS AND DYNAMIC ARRAYS

Functions

- ☐ SEPARATE COMPILATION AND NAMESPACES
- ☐ STREAMS AND FILE I/O
- ☐ RECURSION
- ☐ INHERITANCE
- ☐ POLYMORPHISM AND VIRTUAL FUNCTIONS
- ☐ TEMPLATES
- ☐ LINKED DATA STRUCTURES
- ☐ EXCEPTION HANDLING
- ☐ STANDARD TEMPLATE LIBRARY
- ☐ PATTERNS AND UML

Description:

Given a integer A as a time in seconds.

Convert the format of A from (seconds) to (hours: minutes: seconds).

Input:

For each test case, input a integer A($0 \leq A \leq 2^{64}-1$). Stop until read an EOF.

Output:

For each test case, print “x hours, y minutes, z seconds” , the value of x, y, z is described above.

Sample Input / Output :

Sample Input	Sample Output
50391	13 hours 59 minutes and 51 seconds
489123456786	135867626 hours 53 minutes and 6 seconds
569035139015	158065316 hours 23 minutes and 35 seconds

- ☒ Easy, Only basic programming syntax and structure are required.
- ☐ Medium, Multiple programming grammars and structures are required.
- ☐ Hard, Need to use multiple program structures or complex data types.

Expected solving time:

5 minutes

Other notes: