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MINI 2 Assignment

1. Strongly-typed versus weakly-typed programming language

Strongly-typed: Java (URL (4))

Java is one of the strongest programming languages in the world. Developed by Sun Microsystems, today Oracle, is an object-oriented language which is designed to minimize implementation dependencies. Java’s character of objected-oriented is the biggest different with C. But the most of the syntax was influenced by C.

URL: https://docs.oracle.com/javase/tutorial/

http://www.tutorialspoint.com/java/java\_basic\_syntax.htm

Weakly-typed: C++ (URL (4))

C++ is also one of the most popular programming languages and designed for systems and applications programming. Also it is based on the object-oriented language. C++ is mostly based on the language C. Mostly C++is extended the procedural programming language C, which was designed for efficient execution.

URL: http://www.cplusplus.com/doc/tutorial/

1. Arrays

Precis (Hoover):

Intending to store list of same-type values.

An array is a construct used to store a set of values using only one variable name.

Summary (URL (2)):

An array is a collection of the data which all of data are same variable type. It can access using a common name. And it is useful when the program requires lots of data or specific function such as sorting or searching.

1. String in C

Precis (Hoover):

Intending to store text.

Summary (URL (3))

String is array of characters terminated by a null character. String in C is array of each character which stores in each cell of array. There are lots of predefined functions in string.h library to using more efficiently.

Specific functions:

1. strcpy(s1, s2): copies string s2 into string s1.
2. strlen(s): returns the length of the string s.

There are more functions but upon functions are common using functions.

URL

1. https://www.cs.indiana.edu/classes/a290-C/homework/HooverChapter3.pdf
2. https://www.cs.uic.edu/~jbell/CourseNotes/C\_Programming/Arrays.html
3. http://www.tutorialspoint.com/cprogramming/c\_strings.htm
4. https://en.wikipedia.org/wiki/Comparison\_of\_Java\_and\_C%2B%2B