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AP Computer Science

Week 1 Vocabulary

Vocab Words

Generalization

Specification

Specialization

Requirement

Abstraction

Function

Program Counter

1. A specification provides a way to satisfy one requirement, while a generalization describes a way to satisfy multiple requirements. (Sample)
2. Specialization is the separation of tasks within a system, while generalization extends a concept to less specific criteria.
3. A certain requirement, such as the color scheme, on a certain product can be generalized to other products of similar purpose
4. Abstraction is very similar to generalization, with both processes taking a specific object and keeping only some general attributes.
5. A function, also called a subprogram, is a generalization of the System.out.println command
6. Program, which is completely unrelated to generalization, counters indicates where a computer is in a program sequence.
7. One of the new specifications for the new computer program was the specialization of file search to 3 different functions, each for a different part of the search
8. A set of specifications is also known as the requirements for a certain project
9. The company president wanted the specifications to be exact, without any abstractions
10. The specifications for the new function were extremely complex, requiring many engineers cooperating to accomplish
11. The specifications for the program counter included the requirement that the program counter record time
12. The specialization of labor was an essential requirement for the development of civilization
13. Specialization is when something is made with one specific function, while abstraction is almost the opposite, where an object’s purpose is more vague.
14. The function needed to be specialized, so the computer engineer worked day and night to make it happen
15. The specialized program counter did cooler things than the regular program counter
16. One of the requirements for the project was abstraction of the “person” class
17. A requirement for the function was that it be able to figure out the meaning of the universe.
18. One of the requirements for the program counter was that it needed to tell where the computer was in a program.
19. The function was subject to abstraction so that it could encompass more.
20. A program counter is something that shows where a computer is in a program, while abstraction is the process of separating ideas from instances of those ideas.
21. The program counter showed that the computer was halfway through the function when it stopped.