

选择题

- 1) List the four design models required for a complete specification of a design in traditional software engineering method
(A) Subsystem design (B) Data design (C) Task design
(D) Architecture design (E) Interface design (F) Component-level design
- 2) What factors must be considered to make the module design independent?
(A) information hiding (B) loose cohesion (C) polymorphism (D) strong cohesion (E) inheritance
- 3) The importance of software design can be summarized in a single word: _____
(A) accuracy (B) complexity (C) efficiency (D) quality
- 4) Cohesion is a qualitative indication of the degree to which a module _____
(A) can be written more compactly (B) is connected to other modules and the outside world
(C) is able to complete its function in a timely manner (D) focuses on just one thing
- 5) What factors must be considered to make the module design independent?
(A) loose cohesion (B) information hiding (C) polymorphism (D) inheritance (E) strong cohesion
- 6) The criteria used to assess the quality of an architectural design should be based on system _____.
A) accessibility
B) control
C) data
D) implementation
- 7) Which of these are characteristics of a good design?
A) Exhibits strong coupling between its modules
B) Reflects all requirements in the analysis model
C) Includes test cases for all components
D) Provides a complete picture of the software
- 8) Which of the following interface design principles reduces the user's memory load?
A) Allow user interaction to be undoable
B) Disclose information in a progressive fashion
C) Establish meaningful defaults
D) Decorate your interface, make your user feel comfortable

填空题

- 1) 模块的独立程度可由 ____ 和 ____ 性来度量，设计时应力争做到高 ____, 低 ____。

判断题

- 1) 总体设计阶段必须回答的关键问题是：“怎样具体地实现这个系统？” ()
- 2) 关于耦合的设计原则是尽量使用控制耦合，限制公共耦合，完全不用内容耦合。 ()

- 3) 设计得好的软件结构通常在底层有高扇入，模块的控制域应该在作用域之内。 ()
- 4) Information hiding makes program maintenance easier by hiding data and procedure from unaffected parts of the program. ()
- 5) The good design should supply low cohesion and high coupling.
- 6) Because there are many factors to consider in any design effort, all design should be as complex as possible.
- 7) When using structured design methodologies the process of stepwise refinement is unnecessary.
- 8) Use tools and technology that enable you to construct the system with as many reusable components as possible.

简答题

- 1) Please list three characteristics that can serve as a guide to evaluate design quality.