Abstraction

* Abstraction is the ability to ignore the details of the parts in order to focus attention on a higher level of a problem.
  + TRUE
  + False
* Which of the following best defines abstraction?
  + Hide the implementation
  + show important data
  + Hide important data
  + Hide implementation and show only features
* What is the result of using abstraction?
  + can increase code vulnerability
  + can make code unsafe
  + can consider the most significant or noteworthy aspects of a problem.
  + may be safer for encoding
* Abstraction can be applied to \_\_\_\_\_\_\_\_\_\_\_\_
  + control and data
  + data only
  + control only
  + Lessons
* The principle of abstraction includes \_\_\_\_\_\_\_\_\_\_\_
  + a) Use abstraction to a minimum
  + b) Use abstraction to avoid longer codes
  + c) Use abstraction whenever possible to avoid duplication
  + d) Use abstraction whenever possible to achieve OOP
* The higher the level of abstraction, the greater the details.
  + TRUE
  + False
* If two classes combine some private data members and provide public member functions to access and manipulate those data members. Where is abstraction used?
  + Using the private access specifier for data members
  + Using the concept of class with data members and member functions
  + Using public member functions to access and manipulate data members
  + The data is not enough to decide what is being used
* Significant characteristics of a character called “ Wizard ” must be abstracted. This character will have the option to move, cast spells, hide and appear in a random place. Certain wizards are known to move quickly from left to right, can fly, create their own potions, and magically increase their power. Which of the following is a higher level of abstraction?
  + move , castSpell , hide , showRandomPosition
  + move, castSpell , hide, showRandomPosition , moveLeft , moveRight , fly, makeSpell , powerLevel .
* Hiding implementation complexity can \_\_\_\_\_\_\_\_\_\_\_\_
  + Facilitate programming
  + Make programming complex
  + *Provide more features*
  + Provide better features
* Abstraction has different degrees or levels of abstraction, which help to structure the intrinsic complexity that real world systems possess.
  + TRUE
  + False