

Overloading Member Functions Solutions

Overloading Member Functions

- Explain what is meant by "overloading" an inherited member function
 - We can overload a member function which is inherited from the parent class
 - In the child class, we write a function which has the same name but a different signature
- Write a simple program with an overloaded inherited member function

Hidden Member Functions

- Explain what is meant by a "hidden" member function
 - When a child class overloads an inherited member function, other inherited member functions with the same name cannot be called on the child class
- Write a simple program which demonstrates this problem

Hidden Member Functions - Old Solution

- Describe a solution to hidden member functions which works in any version of C++
 - For each hidden function, add a member function to the child which forwards to the parent's version
- Are there any drawbacks to this solution?
 - It requires defining a new member function for every hidden function
- Write a simple program which uses this solution

Hidden Member Functions - Modern Solution

- Describe a solution to hidden member functions which works with C++11 onwards
 - Add a "using" directive to the child class
 - Now all the hidden member functions can be called on the child class
- Write a simple program which uses this solution