Virtual Function Implementation Solutions

Virtual Member Function Implementation

- Briefly describe how virtual member functions are implemented
  - When the compiler encounters a class with a virtual function, it generates some code which will check the dynamic type at runtime
  - It also creates an array known as a "vtable"
  - The elements of this array are pointers to the virtual member functions of the class
  - At runtime, the program loads the vtable for the dynamic type, looks up the appropriate virtual member function and calls it