

Consider the following scenario –

A news portal has two types of user. One can read the news and another can post the news. Whenever a person wants to register to the site, he/she needs to specify whether he/she is a reader or writer. That's why, at the time of registration, the person who creates his/her identity as "Reader", will be able to read news only and as "Writer", will post the news. User also needs to provide some basic information such as e-mail address, phone number and name. Also, an important information is tracked by the site and that is, how many times a reader is read the news and writer is posted the news to the site. When a reader wants to post the news or writer wants to read the news, he will get the message "You don't have access this feature". A reader can only read the news by using a writer as a friend of the reader.

Now write an appropriate C++ code to implement the above scenario by using object oriented programming. You must use constructor, abstraction property, public, private & protected keywords to maintain the security. Also you can use inheritance property & friend class, if you think that those properties are necessary to implement the scenario.

Hints: The scenario has two classes – Reader & Writer.