```
#include <iostream>
using namespace std;
class Base {
public:
  int public Var;
protected:
  int protectedVar;
private:
  int privateVar;
};
// Public inheritance
class PublicDerived: public Base {
public:
  void accessBaseMembers() {
    publicVar = 10;  // Public member accessible
    protectedVar = 20; // Protected member accessible
    // privateVar = 30;
                         // Private member not accessible
// Protected inheritance
class ProtectedDerived: protected Base {
public:
  void accessBaseMembers() {
    publicVar = 10;  // Public member accessible
    protectedVar = 20;  // Protected member accessible
    // privateVar = 30;
                         // Private member not accessible
// Private inheritance
class PrivateDerived : private Base {
public:
  void accessBaseMembers() {
    publicVar = 10;  // Public member accessible
    protectedVar = 20; // Protected member accessible
    // privateVar = 30; // Private member not accessible
};
int main() {
  PublicDerived pub;
  pub.publicVar = 10;  // Public member accessible
  // pub.protectedVar = 20; // Protected member not accessible
  // pub.privateVar = 30; // Private member not accessible
  ProtectedDerived prot;
  // prot.publicVar = 10; // Public member not accessible
```

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// prot.protectedVar = 20; // Protected member not accessible
// prot.privateVar = 30; // Private member not accessible

PrivateDerived priv;
// priv.publicVar = 10; // Public member not accessible
// priv.protectedVar = 20; // Protected member not accessible
// priv.privateVar = 30; // Private member not accessible
return 0;
}
```