

```

8     return x;
9 }
10
11 void writeAnswer(int x)
12 {
13     std::cout << "The answer is " << x << std::endl;
14 }

```

main.cpp:

```

1 // these are the forward declarations for the functions in io.cpp
2 int readNumber();
3 void writeAnswer(int x);
4
5 int main()
6 {
7     int x = readNumber();
8     int y = readNumber();
9     writeAnswer(x+y);
10    return 0;
11 }

```

Question 3

Modify the program you wrote in #2 so that it uses a header file (named io.h) to access the functions instead of using forward declarations directly in your code (.cpp) files. Make sure your header file uses header guards.

Hide Solution

io.cpp:

```

1 #include <iostream>
2
3 int readNumber()
4 {
5     std::cout << "Enter a number: ";
6     int x;
7     std::cin >> x;
8     return x;
9 }
10
11 void writeAnswer(int x)
12 {
13     std::cout << "The answer is " << x << std::endl;
14 }

```

io.h:

```

1 #ifndef IO_H
2 #define IO_H
3
4 int readNumber();
5 void writeAnswer(int x);
6
7 #endif

```

main.cpp:

```

1 #include "io.h"
2
3 int main()
4 {
5     int x = readNumber();
6     int y = readNumber();
7     writeAnswer(x+y);
8     return 0;
9 }

```