

```
/*  
* 1. Create a class book .the information to be stored include  
name,  
no of copies  
author name,  
etc,  
the cost of book also should be entred  
the fuction should be written.
```

Find the total cont by multiplying no of copies

```
*/
```

```
#include <string>
```

```
#include <iostream>
```

```
using namespace std;
```

```
class book
```

```
{
```

```
public:
```

```
    // constructor
```

```
    book(string n, string a, int y, int c)
```

```
    {
```

```
        set_name(n);
```

```
        set_author(a);
```

```
        set_year(y);
```

```
        set_no_of_copies(c);
```

```
    }
```

```
    // title of the book
```

```
    string get_name() { return _name; };
```

```
    void set_name(string n) { _name = n; };
```

```
    // author
```

```
    string get_author() { return _author; };
```

```

void set_author(string a) { _author = a; };

// number of copies
int get_no_of_copies() { return _no_of_copies; };
void set_no_of_copies(int c)
{
    // set number of copies only if c >=0
    if (c >= 0) _no_of_copies = c;
}

// year of publishing
int get_year() { return _year; };
void set_year(int y)
{
    // skip setting negative year
    if (y >= 0) { _year = y; };
}

// get cost of all books
double get_cost(double costOfOneBook)
{
    return costOfOneBook * get_no_of_copies();
};

// print information about book to stdout
void print()
{
    cout << get_author() << ", " << get_name()
        << " (" << get_year() << "). Number of copies: "
        << get_no_of_copies() << endl;
};

```

```
private:
    string _name;    // name of the book
    string _author; // author name
    int _no_of_copies; // number of copies
    int _year;      // year of the book

};

int main()
{
    book b = book("Warrior race", "Robert Sheklye", 1978, 9);
    b.print();

    double costOfOneBook;

    cout << endl << "Enter the cost of the book : ";
    cin >> costOfOneBook;

    if (costOfOneBook<=0)
    {
        cout << "Error: Incorrect cost value." << endl;
        return -1;
    }

    cout << "The total cost of all books: " << b.get_cost(costOfOneBook) << endl;
    return 0;
}
```