

library.cpp

file.cpp

```

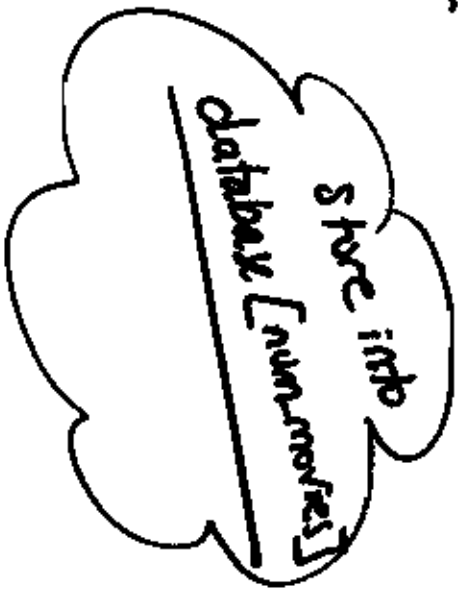
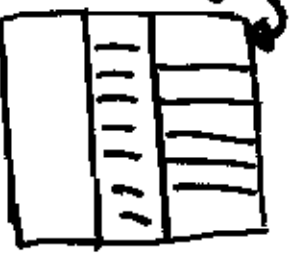
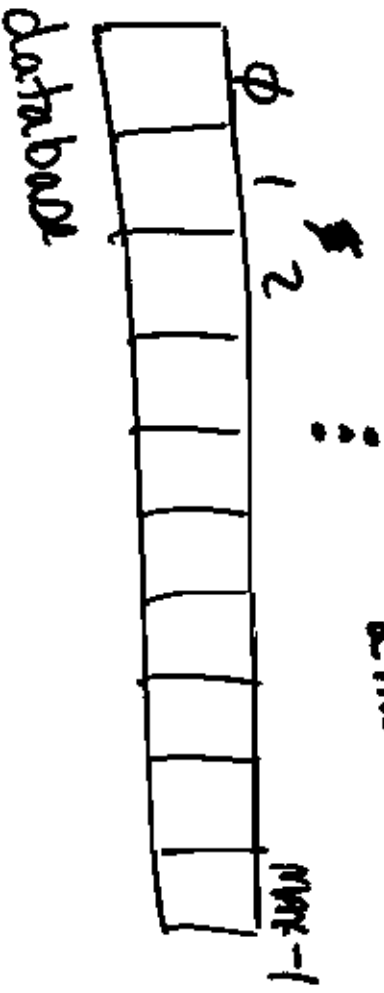
int library::add (movie & toadd)
{
  if (num_movies >= MAX)
    return 0;
}

```

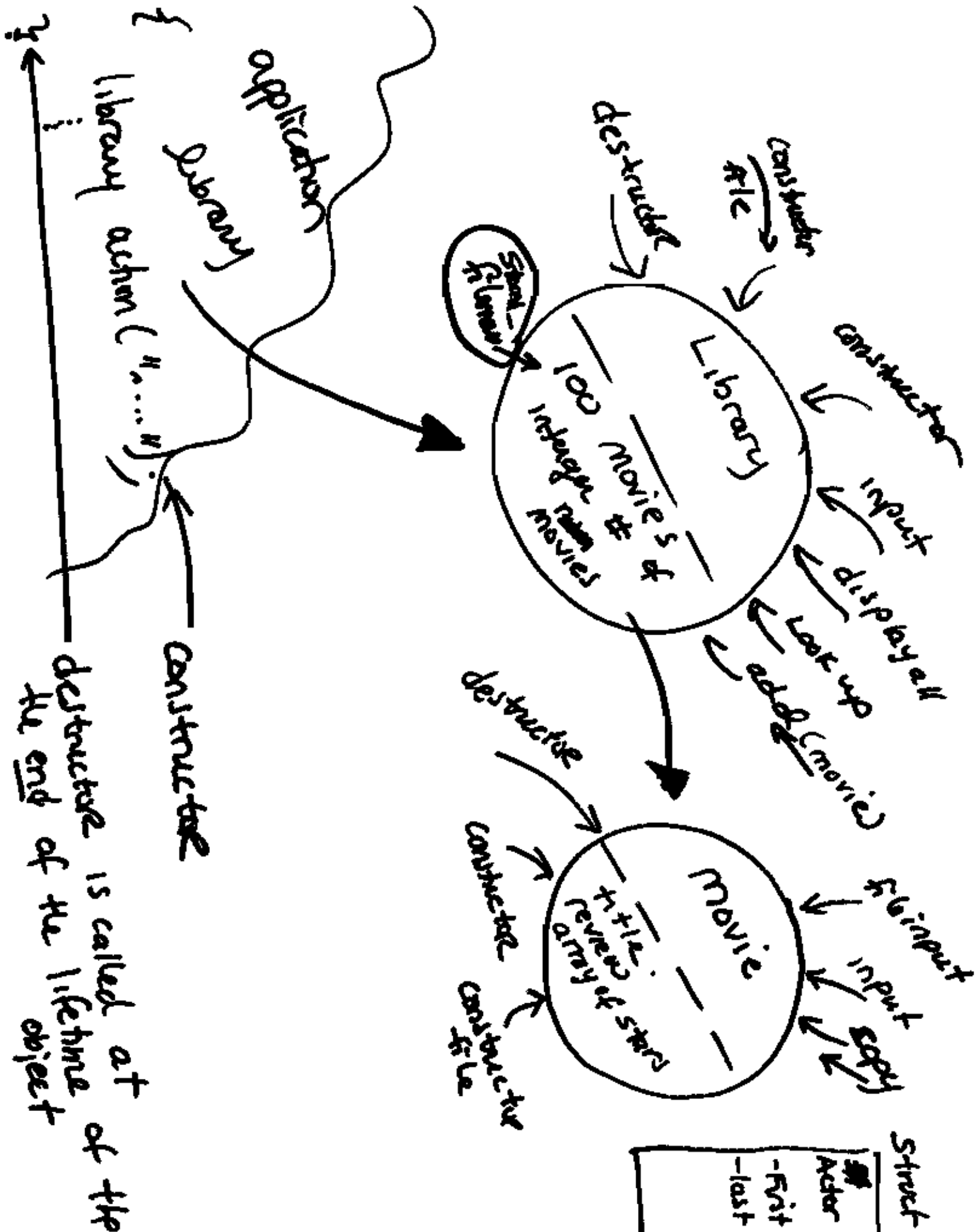
```

int i = num_movies;
strcpy (database [i].title, toadd.title);
strcpy (database [i].review, toadd.review);
strcpy (database [i].num_stars, toadd.num_stars);
for (int j = 0; j < toadd.num_stars; ++j)
  strcpy (database [i].stars [j].first, toadd.stars [j].first);

```



```
    strcpy ( database [i]. stars [j]. first last  
            toadd. stars [j]. last );  
    }  
    ++ num_movies;  
    return num_movies;  
}
```



destructure is called at the end of the lifetime of the object

```

int library :: input()
{
    if (num_movies >= MAX)
        return 0;
    database[num_movies] = input();
    // a movie
    return ++num_movies;
}

```

```

}
int movie :: input()
{
    cout << "Please enter the title ";
    cin.ignore(100, '\n');
    cin.get (title, 131);
}

```



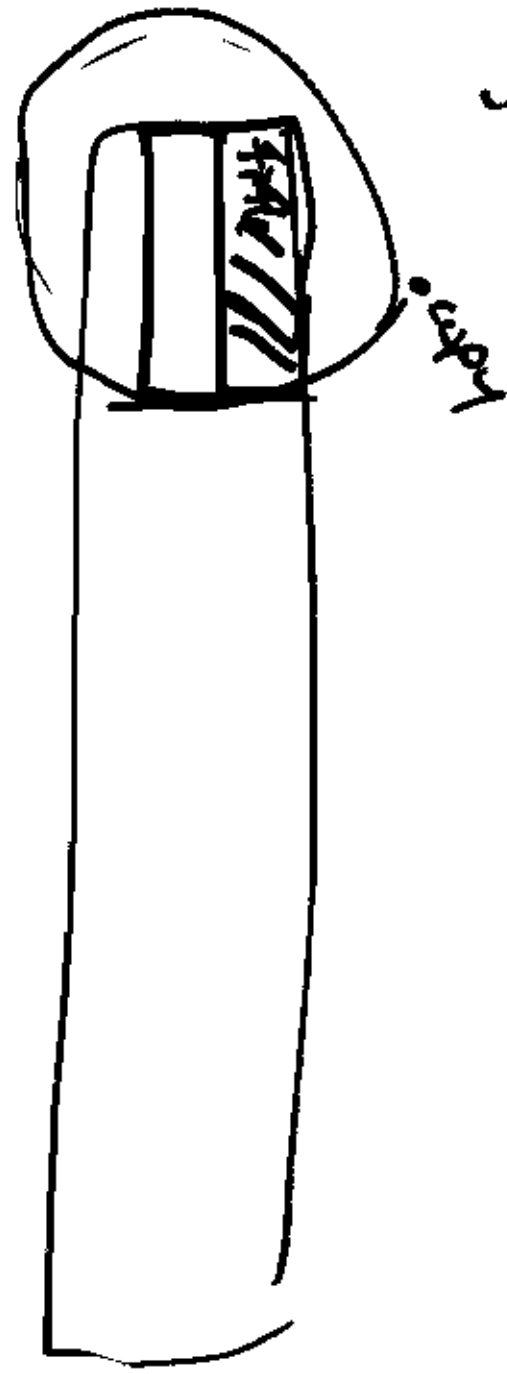
```
int library::add ( movie & tadd )  
{  
  if ( num_movies >= MAX MAX )  
    return  $\phi$ ;  
  database [ num_movies ] . copy ( tadd );  
  return ++num_movies;  
}
```

database [num_movies]

a movie

a movie

return ++num_movies;



```
int movie :: copy ( movie & toadd )
{
    strcpy ( title, toadd.title );
    strcpy ( review, toadd.review );
    num-stars = toadd.num-stars;
    for ( int i = 0; i < num-stars; ++i )
    {
        strcpy ( stars [ i ], toadd.stars [ i - first ] );
        strcpy ( stars [ i ].last, toadd.stars [ i ].last );
    }
    ...
}
```


library.h

```
#include ...
const
struct
class interfaces ←
  (prototypes)
class StoreInventory
  { public:
    private:
  }
21
```

inv.cpp

```
#include "inv.h"
StoreInventory::StoreInventory()
{
  ;
}
CODE FOR member functions
```

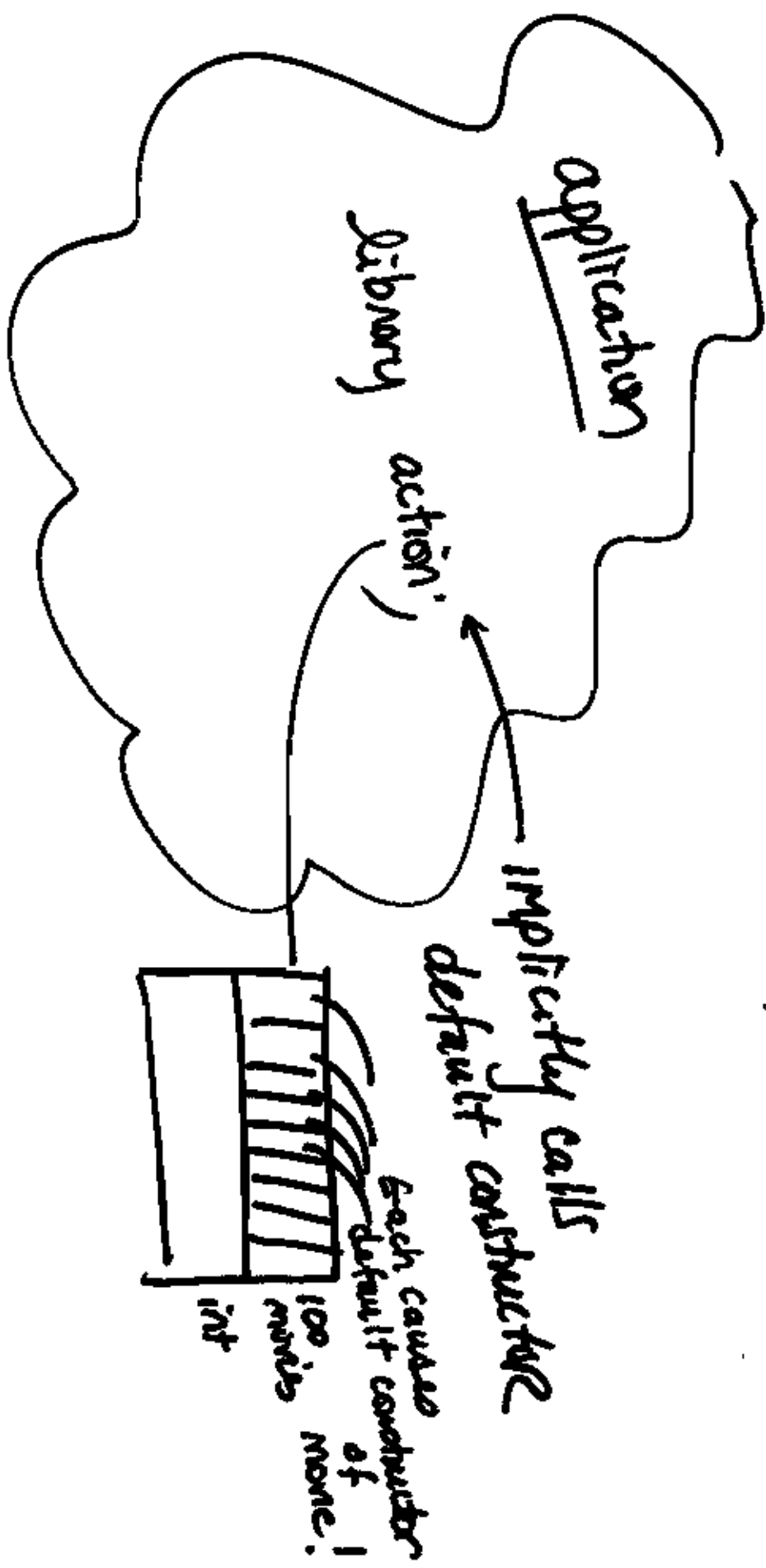
main.cpp

```
#include "inv.h"
int main()
{
  ;
}
any other functions
```

g++ *.cpp

g++ main.cpp inv.cpp

```
Library::Library() // default ← Rule!  
{  
    num_moves = 0;  
}
```



```
movie :: movie () // default
{
  title [φ] = '\φ'.)
  review [φ] = '\φ'.)
  num_stars = φ.
}
```

~~ifstream~~
ifstream (stored filename);

```
Library::Library(char filename [1])  
{  
    int i = 0;  
    ifstream fin;  
    fin.open(filename);  
    if (fin)
```

```
while (data-base [i].filename (fin))  
    ++i;
```

fin 88

88 ! fin.cof(i)

num-movies = i;

Application

```
{  
    Library action ("admin.dat");  
}
```

5

~~void~~ movie :: FileInput (ifstream & fin)

{
~~void~~ success = false;

fin.get (title, 131, ':');

fin.get ();

if (fin && !fin.eof ())

{
fin.get (review, 501, '\n');

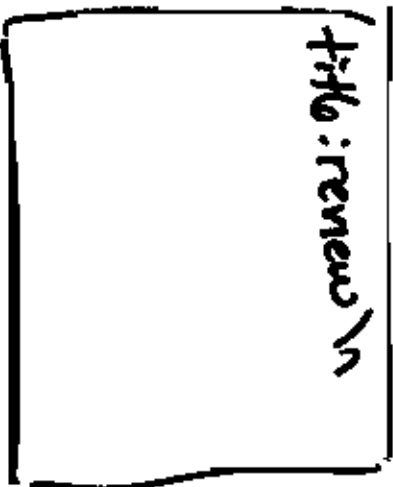
fin.get (); ~~Feature~~

success = true

}

return success;

}



class interface

class library

{ library ();
library (char c);

} ~ library (); ← destructor

NO args
required

← NO args

library :: ~ library ();

{ ofstream fout;

fout.open ("stored filename");

~~for (int i = 0;~~

if (fout)

```
for (int i = 0; i < num_movies; ++i)
    database[i].fileoutput (fout);
fout.close();
```

```
    }
    void move :: fileoutput (ofstream & fout)
    {
        fout << title << " " << revenue << endl;
    }
}
```