

객체지향 별 움직이기

BaseObject.h

```
#ifndef __BASE_OBJECT__
#define __BASE_OBJECT__

class BaseObject
{
public:
    BaseObject() : _X(0)
    {
    }
    virtual bool Update(void) = 0;
    virtual void Render(void) = 0;
protected:
    int _X;
};
#endif
```

OneStar.h

```
#ifndef __ONE_STAR__
#define __ONE_STAR__

class OneStar : public BaseObject
{
public:
    OneStar();
    virtual bool Update(void);
    virtual void Render(void);
};
#endif
```

OneStar.cpp

```
#include <iostream>
#include "BaseObject.h"
#include "OneStar.h"

OneStar::OneStar()
{
}

bool OneStar::Update(void)
{
    _X++;
    if ( _X > 79 )
    {
        return false;
    }
    return true;
}
```

```
void OneStar::Render(void)
{
    for ( int iCnt = 0; iCnt < _X; iCnt++ )
    {
        std::cout << " ";
    }
    std::cout << "**";
}
```

TwoStar.h

```
#ifndef __TWO_STAR__
#define __TWO_STAR__

class TwoStar : public BaseObject
{
public:
    TwoStar();
    virtual bool Update(void);
    virtual void Render(void);
};
#endif
```

TwoStar.cpp

```
#include <iostream>
#include "BaseObject.h"
#include "TwoStar.h"

TwoStar::TwoStar()
{
}

bool TwoStar::Update(void)
{
    _X += 2;
    if ( _X > 79 )
        return false;
    return true;
}

void TwoStar::Render(void)
{
    for ( int iCnt = 0; iCnt < _X; iCnt++ )
    {
        std::cout << " ";
    }
    std::cout << "**";
}
```

Main.cpp

```
#include <windows.h>
#include <conio.h>
#include <iostream>
#include "BaseObject.h"
#include "OneStar.h"
#include "TwoStar.h"
#include "ThreeStar.h"

CBaseObject *g_ObjectsArray[20] = {0,};

void Action()
{
```

```

        if ( !q_JsonObject[iCnt]-->Update() )
        {
            delete q_JsonObject[iCnt];
            q_JsonObject[iCnt] = NULL;
        }
    }

    std::cout << std::endl;
}

void KeyProcess()
{
    CBaseObject *pObject = NULL;
}

```

```
        if ( pObject != NULL )
        {
            for ( int iCnt = 0; iCnt < 20; iCnt++ )
            {
                if ( g_ObjectsArray[iCnt] == NULL )
                {
                    g_ObjectsArray[iCnt] = pObject;
                    return;
                }
            }
            delete pObject;
        }
    }

    int main(void)
    {
        while ( 1 )
        {
            KeyProcess();
            Action();

            system("cls");
            Draw();
            Sleep(100);
        }
        return 0;
    }
}
```