Đã bắt đầu vào lúc	Thứ ba, 5 Tháng mười hai 2023, 10:02 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ ba, 5 Tháng mười hai 2023, 10:14 PM
Thời gian thực hiện	11 phút 6 giây
Điểm	3,00/3,00
Điểm	**10,00** của 10,00 (**100**%)

Câu hỏi 1

Chính xác

Điểm 1,00 của 1,00

Mô tả tiếng Việt:

Cho struct `SCP` lưu trữ thông tin các vật thể dị thường được mô tả như sau:

```
struct SCP {
    int id;
    int objClass;
    string speConProcedures;
    string description;
    string* addendums;
    int numAddendums;
};
```

Hiện thực một hàm với prototype sau:

```
SCP createSCP(int id, int objClass, string speConProcedures, string description, string* addendums, int
numAddendums);
```

Hàm có chức năng khởi tạo instance của struct SCP với các thông tin đã truyền vào, sau đó trả về instance đó.

Ghi chú: (Các) thư viện `iostream` và `string` đã được khai báo, và `namespace std` đã được sử dụng.

English version:

Struct `SCP` used to store information about paranormal objects is declared as below:

```
struct SCP {
    int id;
    int objClass;
    string speConProcedures;
    string description;
    string* addendums;
    int numAddendums;
};
```

Implement the function with the following prototype:

```
SCP createSCP(int id, int objClass, string speConProcedures, string description, string* addendums, int
numAddendums);
```

The function returns a new instance of struct SCP with the passed parameters.

Note: Libraries iostream and string have been imported, and namespace std has been used.

For example:

Test	Result
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance.";

SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five (5) by two point five (2.5) meter square room.", "All known information about the object is that it is not round.", addendums, 2);

for (int i = 0; i < 2; i++) cout << obj.addendums[i] << "\n";

delete [] addendums;
``` | Document #055-1: An Analysis of SCP-055<br>The author puts forward the hypothesis that SCP-055 was never formally acquired.<br>Document #055-2: Report of Dr. John Marachek<br>Survey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance. |
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance.";

SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five (5) by two point five (2.5) meter square room.", "All known information about the object is that it is not round.", addendums, 2);

cout << obj.id;

delete [] addendums;
``` | 55 |

Test	Result
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author
puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey
team #19-055-127BXE was successfully able to enter SCP-055's container
and ascertain the appearance.";

SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five
(5) by two point five (2.5) meter square room.", "All known information
about the object is that it is not round.", addendums, 2);

cout << obj.objClass;

delete [] addendums;
``` | 2 |
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author
puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey
team #19-055-127BXE was successfully able to enter SCP-055's container
and ascertain the appearance.";

SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five
(5) by two point five (2.5) meter square room.", "All known information
about the object is that it is not round.", addendums, 2);

cout << obj.speConProcedures;
``` | Object is kept within a five (5) by five (5) by two point five (2.5) meter square room. |

Test	Result
```string* addendums = new string[2]; addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts forward the hypothesis that SCP-055 was never formally acquired."; addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance."; SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five (5) by two point five (2.5) meter square room.", "All known information about the object is that it is not round.", addendums, 2); cout << obj.description; delete [] addendums;```	All known information about the object is that it is not round.

``string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance.";
 	
SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five (5) by two point five (2.5) meter square room.", "All known information about the object is that it is not round.", addendums, 2);
 	
for (int i = 0; i < obj.numAddendums; i++) cout << obj.addendums[i] << "\n";
 	
delete [] addendums;```
	Document #055-1: An Analysis of SCP-055
	The author puts forward the hypothesis that SCP-055 was never formally acquired.
	Document #055-2: Report of Dr. John Marachek
	Survey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance.

Test	Result
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author
puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey
team #19-055-127BXE was successfully able to enter SCP-055's container
and ascertain the appearance.";

SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five
(5) by two point five (2.5) meter square room.", "All known information
about the object is that it is not round.", addendums, 2);

for (int i = 0; i < obj.numAddendums; i++) cout << obj.addendums[i] <<
"\n";

delete [] addendums;
``` | Document #055-1: An Analysis of SCP-055<br>The author puts forward the hypothesis that SCP-055 was never formally acquired.<br>Document #055-2: Report of Dr. John Marachek<br>Survey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance. |
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author
puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey
team #19-055-127BXE was successfully able to enter SCP-055's container
and ascertain the appearance.";

SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five
(5) by two point five (2.5) meter square room.", "All known information
about the object is that it is not round.", addendums, 2);

for (int i = 0; i < obj.numAddendums; i++) cout << obj.addendums[i] <<
"\n";

delete [] addendums;
``` | Document #055-1: An Analysis of SCP-055<br>The author puts forward the hypothesis that SCP-055 was never formally acquired.<br>Document #055-2: Report of Dr. John Marachek<br>Survey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance. |

Test	Result
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author
puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey
team #19-055-127BXE was successfully able to enter SCP-055's container
and ascertain the appearance.";

SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five
(5) by two point five (2.5) meter square room.", "All known information
about the object is that it is not round.", addendums, 2);

for (int i = 0; i < obj.numAddendums; i++) cout << obj.addendums[i] <<
"\n";

delete [] addendums;
``` | Document #055-1: An Analysis of SCP-055<br>The author puts forward the hypothesis that SCP-055 was never formally acquired.<br>Document #055-2: Report of Dr. John Marachek<br>Survey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance. |
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author
puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey
team #19-055-127BXE was successfully able to enter SCP-055's container
and ascertain the appearance.";

SCP obj = createSCP(55, 2, "Object is kept within a five (5) by five
(5) by two point five (2.5) meter square room.", "All known information
about the object is that it is not round.", addendums, 2);

for (int i = 0; i < obj.numAddendums; i++) cout << obj.addendums[i] <<
"\n";

delete [] addendums;
``` | Document #055-1: An Analysis of SCP-055<br>The author puts forward the hypothesis that SCP-055 was never formally acquired.<br>Document #055-2: Report of Dr. John Marachek<br>Survey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance. |

Answer: (penalty regime: 0 %)

Reset answer

```cpp
1  SCP createSCP(int id, int objClass, string speConProcedures, string description, string* adde
```

```
   2          // Student answer
   3          SCP obj;
   4          obj.id = id;
   5          obj.objClass = objClass;
   6          obj.speConProcedures = speConProcedures;
   7          obj.description = description;
   8          obj.addendums = addendums;
   9          obj.numAddendums = numAddendums;
  10          return obj;
  11
  12    }
```

Passed all tests! ✔

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác

Điểm 1,00 của 1,00

Mô tả tiếng Việt:

Cho struct `SCP` lưu trữ thông tin các vật thể dị thường được mô tả như sau:

```
struct SCP {
    int id;
    int objClass;
    string speConProcedures;
    string description;
    string* addendums;
    int numAddendums;
};
```

Hiện thực một hàm với prototype sau:

```
string convertToString(SCP obj);
```

Hàm trả về một string duy nhất, với format chuẩn được quy định bởi tổ chức:

```
Item #: SCP-<Mã định danh, thêm 0 vào trước nếu chưa đủ 3 chữ số>
Object Class: <Safe nếu objClass là 0, Euclid nếu là 1, Keter nếu là 2>
Special Containment Procedures: <Quy trình quản thúc đặc biệt>
Description: <Mô tả vật thể>
<Phụ lục 0>
<Phụ lục 1>
...
<Phụ lục n>
```

Tham khảo ví dụ để hiểu về format đầu ra.

Ghi chú: (Các) thư viện `iostream` và `string` đã được khai báo, và `namespace std` đã được sử dụng.

English version:

Struct `SCP` used to store information about paranormal objects is declared as below:

```
struct SCP {
    int id;
    int objClass;
    string speConProcedures;
    string description;
    string* addendums;
    int numAddendums;
};
```

Implement the function with the following prototype:

```
string convertToString(SCP obj);
```

The function returns a string with the following format:

```
Item #: SCP-<Item number, zero-left-padded until it has 3 or more digits.>
Object Class: <Safe if objClass is 0, Euclid if 1, Keter if 2>
Special Containment Procedures: <The specification of the object's special containment procedures.>
Description: <The object's description.>
<Addendum 0>
<Addendum 1>
...
<Addendum n>
```

Refer to the example to understand the format.

Note: Libraries `iostream` and `string` have been imported, and `namespace std` has been used.

For example:

Test	Result

string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance.";
 	
SCP obj {55, 2, "Object is kept within a five (5) by five (5) by two point five (2.5) meter square room.", "All known information about the object is that it is not round.", addendums, 2};
 	
cout << convertToString(obj);
 	
delete [] addendums;
	Item #: SCP-055
	Object Class: Keter
	Special Containment Procedures: Object is kept within a five (5) by five (5) by two point five (2.5) meter square room.
	Description: All known information about the object is that it is not round.
	Document #055-1: An Analysis of SCP-055
	The author puts forward the hypothesis that SCP-055 was never formally acquired.
	Document #055-2: Report of Dr. John Marachek
	Survey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance.

SCP obj {2, 1, "SCP-002 is to remain connected to a suitable power supply at all times.", "SCP-002 resembles a tumorous, fleshy growth with a volume of roughly 60 cubed meter.", nullptr, 0}; cout << convertToString(obj);	Item #: SCP-002 Object Class: Euclid Special Containment Procedures: SCP-002 is to remain connected to a suitable power supply at all times. Description: SCP-002 resembles a tumorous, fleshy growth with a volume of roughly 60 cubed meter.
SCP obj {500, 0, "SCP-500 must be stored in a cool and dry place away from bright light.", "SCP-500 is a small plastic can which at the time of writing contains forty-seven (47) red pills.", nullptr, 0}; cout << convertToString(obj);	Item #: SCP-500 Object Class: Safe Special Containment Procedures: SCP-500 must be stored in a cool and dry place away from bright light. Description: SCP-500 is a small plastic can which at the time of writing contains forty-seven (47) red pills.

Test	Result
SCP obj {1487, 1, "SCP-1487 is to be kept in Humanoid Containment Chamber #3821 at Site 23.", "SCP-1487 is a female humanoid of Filipino descent. The entity is fifteen (15) years old and measures 1.7m in height and 70kg in weight.", nullptr, 0}; cout << convertToString(obj);	Item #: SCP-1487 Object Class: Euclid Special Containment Procedures: SCP-1487 is to be kept in Humanoid Containment Chamber #3821 at Site 23. Description: SCP-1487 is a female humanoid of Filipino descent. The entity is fifteen (15) years old and measures 1.7m in height and 70kg in weight.

string* addendums = new string[1];
addendums[0] = "Site 81/715 Protocol: [ACCESS RESTRICTED]\nPlease Access Using 715/5 Authorization Code";
 	
SCP obj {715, 0, "SCP-715 is to be contained at its point of origin within the ---- City Mall in ----, Ohio.", "SCP-715 is a \"Take Your Own Photo\" fotomat model photo booth manufactured by the Sony corporation in 1972.", addendums, 1};
 	
cout << convertToString(obj);
 	
delete [] addendums;
	Item #: SCP-715
	Object Class: Safe
	Special Containment Procedures: SCP-715 is to be contained at its point of origin within the ---- City Mall in ----, Ohio.
	Description: SCP-715 is a "Take Your Own Photo" fotomat model photo booth manufactured by the Sony corporation in 1972.
	Site 81/715 Protocol: [ACCESS RESTRICTED] Please Access Using 715/5 Authorization Code

Test	Result
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author
puts forward the hypothesis that SCP-055 was never formally
acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey
team #19-055-127BXE was successfully able to enter SCP-055's
container and ascertain the appearance.";

SCP obj {55, 2, "Object is kept within a five (5) by five (5) by two
point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};

cout << convertToString(obj);

delete [] addendums;
``` | Item #: SCP-055<br>Object Class: Keter<br>Special Containment Procedures: Object is kept within a five (5) by five (5) by two point five (2.5) meter square room.<br>Description: All known information about the object is that it is not round.<br>Document #055-1: An Analysis of SCP-055<br>The author puts forward the hypothesis that SCP-055 was never formally acquired.<br>Document #055-2: Report of Dr. John Marachek<br>Survey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance. |
| ```cpp
SCP obj {2, 1, "SCP-002 is to remain connected to a suitable power
supply at all times.", "SCP-002 resembles a tumorous, fleshy growth
with a volume of roughly 60 cubed meter.", nullptr, 0};
cout << convertToString(obj);
``` | Item #: SCP-002<br>Object Class: Euclid<br>Special Containment Procedures: SCP-002 is to remain connected to a suitable power supply at all times.<br>Description: SCP-002 resembles a tumorous, fleshy growth with a volume of roughly 60 cubed meter. |
| ```cpp
SCP obj {500, 0, "SCP-500 must be stored in a cool and dry place
away from bright light.", "SCP-500 is a small plastic can which at
the time of writing contains forty-seven (47) red pills.", nullptr,
0};
cout << convertToString(obj);
``` | Item #: SCP-500<br>Object Class: Safe<br>Special Containment Procedures: SCP-500 must be stored in a cool and dry place away from bright light.<br>Description: SCP-500 is a small plastic can which at the time of writing contains forty-seven (47) red pills. |

Test	Result
SCP obj {1487, 1, "SCP-1487 is to be kept in Humanoid Containment Chamber #3821 at Site 23.", "SCP-1487 is a female humanoid of Filipino descent. The entity is fifteen (15) years old and measures 1.7m in height and 70kg in weight.", nullptr, 0}; cout << convertToString(obj);	Item #: SCP-1487 Object Class: Euclid Special Containment Procedures: SCP-1487 is to be kept in Humanoid Containment Chamber #3821 at Site 23. Description: SCP-1487 is a female humanoid of Filipino descent. The entity is fifteen (15) years old and measures 1.7m in height and 70kg in weight.

string* addendums = new string[1];
addendums[0] = "Site 81/715 Protocol: [ACCESS RESTRICTED]\nPlease Access Using 715/5 Authorization Code";
 	
SCP obj {715, 0, "SCP-715 is to be contained at its point of origin within the ---- City Mall in ----, Ohio.", "SCP-715 is a \"Take Your Own Photo\" fotomat model photo booth manufactured by the Sony corporation in 1972.", addendums, 1};
 	
cout << convertToString(obj);
 	
delete [] addendums;
	Item #: SCP-715
	Object Class: Safe
	Special Containment Procedures: SCP-715 is to be contained at its point of origin within the ---- City Mall in ----, Ohio.
	Description: SCP-715 is a "Take Your Own Photo" fotomat model photo booth manufactured by the Sony corporation in 1972.
	Site 81/715 Protocol: [ACCESS RESTRICTED] Please Access Using 715/5 Authorization Code

Answer: (penalty regime: 0 %)

Reset answer

```
1  string convertToString(SCP obj) {
2      // Student answer
3      string idStr = to_string(obj.id);
4      while (idStr.length() < 3) {
5          idStr = "0" + idStr;
6      }
7
8      // Xác định lớp vật thể
9      string objectClass;
10     if (obj.objClass == 0) {
11         objectClass = "Safe";
```

```
12 ▾     } else if (obj.objClass == 1) {
13           objectClass = "Euclid";
14 ▾     } else if (obj.objClass == 2) {
15           objectClass = "Keter";
16       }
17
18       // Tạo chuỗi đầu ra theo định dạng yêu cầu
19       string output = "Item #: SCP-" + idStr + "\n";
20       output += "Object Class: " + objectClass + "\n";
21       output += "Special Containment Procedures: " + obj.speConProcedures + "\n";
22       output += "Description: " + obj.description + "\n";
```

Passed all tests! ✔

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác

Điểm 1,00 của 1,00

Mô tả tiếng Việt:

Cho struct `SCP` lưu trữ thông tin các vật thể dị thường được mô tả như sau:

```
struct SCP {
    int id;
    int objClass;
    string speConProcedures;
    string description;
    string* addendums;
    int numAddendums;
};
```

Một đối tượng dị thường là SCP-038 có khả năng tạo bản sao của các vật thể dị thường khác, ví dụ như SCP-500 (thuốc vạn ứng). Khi đối tượng gốc bị tiêu thụ/phá hủy, bản sao vẫn tồn tại độc lập.

Hiện thực một hàm với prototype sau:

```
SCP* cloneSCP(SCP* original);
```

Hàm có chức năng tạo một bản sao con trỏ loại SCP chứa các thông tin như đối tượng gốc original, sau đó trả về con trỏ đó. Lưu ý về shallow copy và deep copy.

Ghi chú: (Các) thư viện `iostream` và `string` đã được khai báo, và `namespace std` đã được sử dụng.

English version:

Struct `SCP` used to store information about paranormal objects is declared as below:

```
struct SCP {
    int id;
    int objClass;
    string speConProcedures;
    string description;
    string* addendums;
    int numAddendums;
};
```

The paranormal object SCP-038 has the ability to clone other objects, such as SCP-500 (panacea). The clone is independent of the original, and the clone will remain the same whether the original is destroyed or modified.

Implement the function with the following prototype:

```
SCP* cloneSCP(SCP* original);
```

The function returns a pointer of the new cloned instance of the original object `original`. Choose the appropriate copy method.

Note: Libraries `iostream` and `string` have been imported, and `namespace std` has been used.

For example:

Test	Result

<pre>string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
ascertain the appearance.";
 	
SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};
 	
SCP* newObj = cloneSCP(obj);
 	
obj->id = 1;
cout << obj->id << " " << newObj->id << "\n";
 	
delete [] obj->addendums;
delete obj;
 	
delete [] newObj->addendums;
delete newObj;</pre>
	1 55

Test	Result
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
ascertain the appearance.";

SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};

SCP* newObj = cloneSCP(obj);

obj->description = "The object cannot be described.";
cout << obj->description << " " << newObj->description << "\n";

delete [] obj->addendums;
delete obj;

delete [] newObj->addendums;
delete newObj;
``` | The object cannot be described. All known information about the object is that it is not round. |

Test	Result
| ```
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
ascertain the appearance.";

SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};

SCP* newObj = cloneSCP(obj);

obj->addendums[0] = "Access authority required.";
cout << obj->addendums[0] << " " << newObj->addendums[0] << "\n";

delete [] obj->addendums;
delete obj;

delete [] newObj->addendums;
delete newObj;
``` | Access authority required. Document #055-1: An Analysis of SCP-055 The author puts forward the hypothesis that SCP-055 was never formally acquired. |

Test	Result

``cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
ascertain the appearance.";
 	
SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};
 	
SCP* newObj = cloneSCP(obj);
 	
delete [] obj->addendums;
delete obj;
 	
cout << newObj->id << "\n";
 	
delete [] newObj->addendums;
delete newObj;
``
	55

Test	Result

``cpp
{
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
ascertain the appearance.";
 	
SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};
 	
SCP* newObj = cloneSCP(obj);
 	
delete [] obj->addendums;
delete obj;
 	
cout << newObj->addendums[0] << "\n";
 	
delete [] newObj->addendums;
delete newObj;
}
``
	Document #055-1: An Analysis of SCP-055
	The author puts forward the hypothesis that SCP-055 was never formally acquired.

Test	Result

``cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
ascertain the appearance.";
 	
SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};
 	
SCP* newObj = cloneSCP(obj);
 	
obj->id = 1;
cout << obj->id << " " << newObj->id << "\n";
 	
delete [] obj->addendums;
delete obj;
 	
delete [] newObj->addendums;
delete newObj;
``
	1 55

Test	Result
```cpp string* addendums = new string[2]; addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts forward the hypothesis that SCP-055 was never formally acquired."; addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team #19-055-127BXE was successfully able to enter SCP-055's container and ascertain the appearance."; SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5) by two point five (2.5) meter square room.", "All known information about the object is that it is not round.", addendums, 2}; SCP* newObj = cloneSCP(obj); obj->description = "The object cannot be described."; cout << obj->description << " " << newObj->description << "\n"; delete [] obj->addendums; delete obj; delete [] newObj->addendums; delete newObj; ```	The object cannot be described. All known information about the object is that it is not round.

Test	Result
| ```
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
ascertain the appearance.";

SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};

SCP* newObj = cloneSCP(obj);

obj->addendums[0] = "Access authority required.";
cout << obj->addendums[0] << " " << newObj->addendums[0] << "\n";

delete [] obj->addendums;
delete obj;

delete [] newObj->addendums;
delete newObj;
``` | Access authority required. Document #055-1: An Analysis of SCP-055 The author puts forward the hypothesis that SCP-055 was never formally acquired. |

Test	Result
| ```cpp
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
ascertain the appearance.";

SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};

SCP* newObj = cloneSCP(obj);

delete [] obj->addendums;
delete obj;

cout << newObj->id << "\n";

delete [] newObj->addendums;
delete newObj;
``` | 55 |

Test	Result
| ```
{
string* addendums = new string[2];
addendums[0] = "Document #055-1: An Analysis of SCP-055\nThe author puts
forward the hypothesis that SCP-055 was never formally acquired.";
addendums[1] = "Document #055-2: Report of Dr. John Marachek\nSurvey team
#19-055-127BXE was successfully able to enter SCP-055's container and
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SCP* obj = new SCP {55, 2, "Object is kept within a five (5) by five (5)
by two point five (2.5) meter square room.", "All known information about
the object is that it is not round.", addendums, 2};

SCP* newObj = cloneSCP(obj);

delete [] obj->addendums;
delete obj;

cout << newObj->addendums[0] << "\n";

delete [] newObj->addendums;
delete newObj;
}
``` | Document #055-1: An Analysis of SCP-055<br>The author puts forward the hypothesis that SCP-055 was never formally acquired. |

Answer: (penalty regime: 0 %)

Reset answer

```
 1  SCP* cloneSCP(SCP* original) {
 2      // Student answer
 3      SCP *p=new SCP;
 4      p->id=original->id;
 5      p->objClass=original->objClass;
 6      p->speConProcedures=original->speConProcedures;
 7      p->description=original->description;
 8      p->addendums=new string[original->numAddendums];
 9      p->numAddendums=original->numAddendums;
10      for(int i=0;i<original->numAddendums;i++)
11          p->addendums[i]=original->addendums[i];
```

```
12        return p;
13
14  }
```

Passed all tests! ✔

(Chính xác)

Điểm cho bài nộp này: 1,00/1,00.

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