```
G++ 2.91.57, cygnus\cygwin-b20\include\g++\stl_construct.h 完整列表
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/* NOTE: This is an internal header file, included by other STL headers.
^{\star} You should not attempt to use it directly.
* /
#ifndef __SGI_STL_INTERNAL_CONSTRUCT_H
#define __SGI_STL_INTERNAL_CONSTRUCT_H
#include <new.h>
                      // 欲使用 placement new,需先含入此檔
__STL_BEGIN_NAMESPACE
// 以下是 destroy() 第一版本,接受一個指標。
template <class T>
inline void destroy(T* pointer) {
   pointer->~T();
                      // 喚起 dtor ~T()
template <class T1, class T2>
inline void construct(T1* p, const T2& value) {
 new (p) T1(value); // placement new; 喚起 ctor T1(value);
```

```
// 如果元素的數值型別 (value type) 有 non-trivial destructor…
template <class ForwardIterator>
inline void
__destroy_aux(ForwardIterator first, ForwardIterator last, __false_type) {
 for ( ; first < last; ++first)</pre>
   destroy(&*first);
// 如果元素的數值型別(value type)有 trivial destructor…
template <class ForwardIterator>
inline void __destroy_aux(ForwardIterator, ForwardIterator, __true_type) {}
// 判斷元素的數值型別(value type)是否有 trivial destructor
template <class ForwardIterator, class T>
\verb|inline| \verb|void| $\_\_ \textbf{destroy}(\texttt{ForwardIterator first, ForwardIterator last, T*})| \\
 typedef typename __type_traits<T>::has_trivial_destructor trivial_destructor;
 __destroy_aux(first, last, trivial_destructor());
// 以下是 destroy() 第二版本,接受兩個迭代器。此函式是設法找出元素的數值型別,
// 進而利用 __type_traits<> 求取最適當措施。
template <class ForwardIterator>
inline void destroy(ForwardIterator first, ForwardIterator last) {
 __destroy(first, last, value_type(first));
// 以下是destroy() 第二版本針對迭代器為 char* 和 wchar_t* 的特化版
inline void destroy(char*, char*) {}
inline void destroy(wchar_t*, wchar_t*) {}
__STL_END_NAMESPACE
#endif /* __SGI_STL_INTERNAL_CONSTRUCT_H */
// Local Variables:
// mode:C++
// End:
```