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/* The following code example is taken from the book
* "The C++ Standard Library - A Tutorial and Reference"
* by Nicolai M. Josuttis, Addison-Wesley, 1999
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 * warranty, and with no claim as to its suitability for any purpose.
namespace boost {
* type nullary function
* - as supplement to unary function and binary function
 ******************
template <class Result>
struct nullary_function {
   typedef Result result type;
* ptr fun for functions with no argument
template <class Result>
class pointer to nullary function: public nullary function (Result)
 protected:
   Result (*ptr)();
 public:
   pointer to nullary function() {
   explicit pointer to nullary function(Result (*x)()) : ptr(x) {
   Result operator()() const {
       return ptr();
};
template <class Result>
inline pointer to nullary function (Result) ptr fun(Result (*x)())
 return pointer to nullary function (Result)(x);
```