```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference, 2nd Edition"
 * by Nicolai M. Josuttis, Addison-Wesley, 2012
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 * warranty, and with no claim as to its suitability for any purpose.
#include \( functional \)
#include <iostream>
int main()
    auto plus10 = std::bind(std::plus<int>(),
                                std::placeholders:: 1,
                              " << plus10(7) << std::endl;
    std::cout << "+10:
    auto plus10times2 = std::bind(std::multiplies<int>(),
                                       std::bind(std::plus<int>(),
                                                   std::placeholders:: 1,
                                                   10),
                                       2):
    std::cout << "+10 *2: " << plus10times2(7) << std::endl;
    auto pow3 = std::bind(std::multiplies<int>(),
                              std::bind(std::multiplies<int>(),
                                         std::placeholders:: 1,
                                         std::placeholders:: 1),
                              std::placeholders::_1);
    std::cout << "x*x*x:
                               " << pow3(7) << std::endl;
    auto inversDivide = std::bind(std::divides < double > (),
                                       std::placeholders:: 2,
                                       std::placeholders::_1);
    std::cout << "invdiv: " << inversDivide(49,7) << std::endl;
}
```