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/* 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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 */
#include <tuple>
#include <iostream>
// helper: print element with index IDX of tuple with MAX elements
template <int IDX, int MAX, typename... Args>
struct PRINT TUPLE {
  static void print (std::ostream& strm, const std::tuple<Args...>& t) {
   strm << std::get<IDX>(t) << (IDX+1==MAX ? "" : ",");</pre>
    PRINT TUPLE < IDX+1, MAX, Args...>::print(strm, t);
};
// partial specialization to end the recursion
template <int MAX, typename... Args>
struct PRINT TUPLE < MAX, MAX, Args...> {
  static void print (std::ostream& strm, const std::tuple Args...>& t) {
};
// output operator for tuples
template <typename... Args>
std::ostream& operator << (std::ostream& strm,
                             const std::tuple<Args...>& t)
{
    strm << "[";
    PRINT_TUPLE<0, sizeof...(Args), Args...>::print(strm, t);
    return strm \langle \langle " \rangle ";
```