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Reviewed on Wednesday, 18 November 2020, 6:12 PM by Automatic grade
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Assessment report[-]
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Submitted on Wednesday, 18 November 2020, 6:12 PM (Download)

cpp11.h

```
 1  /* Start Header
 2  *****************************************************************/
 3  /*!
 4  \file cpp11.h
 5  \author Goh Wei Zhe, weizhe.goh, 440000119
 6  \par email: weizhe.goh\@digipen.edu
 7  \date November 18, 2020
 8  \brief Contains definition for generating an index sequence using C++11 approach
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11  prior written consent of DigiPen Institute of Technology is prohibited.
12  */
13  /* End Header
14  *****************************************************************/
15
16  #ifndef CPP11_H_
17  #define CPP11_H_
18
19  template <size_t Count, size_t... Rest>
20  struct make_sequence_impl
21  {
22      using type = typename make_sequence_impl<Count-1,Rest...,1UL<<Count >::type;
23  };
24
25  template <size_t... Rest>
26  struct make_sequence_impl<0, Rest...>
27  {
28      using type = index_sequence<Rest..., 1>;
29  };
30
31  template <size_t T>
32  using make_sequence = typename make_sequence_impl<T>::type;
33
34  #endif // !CPP11_H_H
35
```

cpp17.h

```cpp
/* Start Header
*****************************************************************/
/*!
\file cpp17.h
\author Goh Wei Zhe, weizhe.goh, 440000119
\par email: weizhe.goh\@digipen.edu
\date November 18, 2020
\brief Contains definition for generating an index sequence using C++17 approach
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*/
/* End Header
*****************************************************************/

#ifndef CPP17_H
#define CPP17_H

template <size_t Count, size_t... Rest>
constexpr auto make_sequence_impl()
{
    if constexpr (Count != 0)
    {
        return make_sequence_impl<Count - 1, Rest..., 1UL<<Count >();
    }
    else
    {
        return index_sequence<Rest..., 1>{};
    }
}

template <size_t T>
using make_sequence = decltype(make_sequence_impl<T>());

#endif // !CPP17_H
```

VPL

◄ Assignment 5 files   Jump to...   Attendance cs225f20-b.sg Thursday
                                                                19/11/2020 1:30pm-3:10pm ►

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