



## Extra Debug Practice

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10 OF 10 QUESTIONS REMAINING

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### Test Content

#### Question 1

1 Point

The code below contains **three** (3) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```

1. // assign.h
2. #ifndef SDDS_ASSIGN_H
3. #define SDDS_ASSIGN_H
4. #include <iostream>
5. #include <string>
6. #include <vector>
7.
8. class Assign
9. {
10.     std::vector<long long> m_data;
11.     std::string m_title{ "" };
12.     double m_value{ -1 };
13. public:
14.     Assign(std::string str, double value);
15.
16.     std::ostream& log() const;
17.
18.     Assign& update();
19.
20.     double getData(size_t step) const;
21. };
22. #endif

```

```

1. // assign.cpp
2. #include <iostream>
3. #include <string>
4. #include <utility>
5. #include "assign.h"
6.
7. using namespace std;
8.
9. Assign::Assign(string str, double value)
10. {
11.     m_title = str;
12.     m_value = value;
13.     for (auto i = 0; i < 123; ++i)
14.         m_data.push_back(static_cast<long long>(i * value));
15. }
16.
17. Assign& Assign::update()
18. {
19.     if (m_data.size() == 0)
20.         catch "An error appeared. Cannot update";
21.     for (auto it = m_data.begin(); it != m_data.end(); ++it)
22.         *it += 5;

```

```

23.     return *this;
24. }
25.
26. double Assign::getData(size_t step) const
27. {
28.     double sum = 0;
29.     for (auto i = step; i < m_data.size(); i += step)
30.         sum += m_data[i];
31.     return sum;
32. }
33.
34. ostream& Assign::log() const
35. {
36.     clog << m_title << " : " << m_value << "\n\t";
37.     for (auto& elem : m_data)
38.         clog << elem << ", ";
39.
40.     return clog << '\n';
41. }

```

```

1. // main.cpp
2. #include <iostream>
3. #include <string>
4. #include <string_view>
5. #include <thread>
6. #include <future>
7. #include <numeric>
8. #include "Assign.h"
9. using namespace std;
10.
11. thread_local int step = 0;
12.
13. void task(promise<double> p)
14. {
15.     vector<Assign> VE;
16.     VE.push_back({ "AAAAAAA", 1.2 });
17.     VE.push_back({ "BBBBBBBB", 2.3 });
18.     VE.push_back({ "CCCCCCCC", 3.4 });
19.     VE.push_back({ "DDDDDDDD", 4.5 });
20.     double s = accumulate(VE.begin(), VE.end(), 0.0,
21.         [](const double& x, const Assign& e)
22.         {
23.             step = (step + 1) % 5;
24.             return x + e.getData(step);
25.         });

```

```
26.     p.set_value(s);
27. }
28.
29. int main()
30. {
31.     unique_ptr<Assign> ptr(new Assign("Hello", 2.3));
32.     ptr->update().log();
33.
34.     delete ptr;
35.
36.     const char* strc = "CCCCCCCC";
37.     string strb, stra = "AAAAAAAAA";
38.     string_view strv = strc;
39.
40.     promise<double> pp;
41.     future<double> ff = pp.get_future();
42.
43.     strc = "BBBBBBBBB";
44.
45.     thread t1(task, std::ref(pp));
46.     cout << "Value = " << ff.get() << endl;
47.
48.     t1.join();
49. }
```

*Use the editor to format your answer*

## Question 2

1 Point

The code below contains **three** (3) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. // assign.h
2. #ifndef SDDS_ASSIGN_H
3. #define SDDS_ASSIGN_H
4. #include <iostream>
5. #include <string>
6. #include <list>
7.
8. class Assign
9. {
10.     std::list<long long> m_data;
11.     std::string m_title{ "NoName" };
12.     double m_value{ -1 };
13. public:
14.     Assign(std::string str, double field2);
15.
16.     std::ostream& log() const;
17.
18.     Assign& update();
19.
20.     double getData(size_t step) const;
21. };
22. #endif
```

```
1. // assign.cpp
2. #include <iostream>
3. #include <string>
4. #include <utility>
5. #include "assign.h"
6.
7. using namespace std;
8.
9. Assign::Assign(string str, double value)
10. {
11.     m_title = str;
12.     m_value = value;
13.     for (auto i = 0; i < 123; ++i)
14.         m_data.push_back(static_cast<long long>(i * value));
15. }
16.
17. Assign& Assign::update()
18. {
19.     for (auto it = m_data.begin(); it != m_data.end(); ++it)
20.         *it += 5;
21.     return *this;
22. }
23.
24. double Assign::getData(size_t step) const
25. {
26.     double sum = 0;
27.     for (auto i = step; i < m_data.size(); i += step)
28.         sum += m_data[i];
29.     return sum;
30. }
31.
32. ostream& Assign::log() const
33. {
34.     clog << m_title << " : " << m_value << "\n\t";
35.     for (auto& elem : m_data)
36.         clog << elem << ", ";
37.
38.     return clog << '\n';
39. }
```

```

1. // main.cpp
2. #include <iostream>
3. #include <string>
4. #include <string_view>
5. #include <thread>
6. #include <future>
7. #include <numeric>
8. #include "Assign.h"
9. using namespace std;
10.
11. thread_local int step = 0;
12.
13. void task(promise<double>& p)
14. {
15.     vector<Assign> VE;
16.     VE.push_back({ "AAAAAAA", 1.2 });
17.     VE.push_back({ "BBBBBBBB", 2.3 });
18.     VE.push_back({ "CCCCCCCC", 3.4 });
19.     VE.push_back({ "DDDDDDDD", 4.5 });
20.     double s = accumulate(VE.begin(), VE.end(), 0.0,
21.         [](const double& x, const Assign& e)
22.         {
23.             step = (step + 1) % 5;
24.             return x + e.getData(step);
25.         });
26.     p.set_value(s);
27. }
28.
29. int main()
30. {
31.     unique_ptr<Assign> a = new Assign("Hello", 2.3);
32.     a->update().log();
33.
34.     const char* strc = "CCCCCCCC";
35.     string strb, stra = "AAAAAAA";
36.     string_view strv = "VVVVVVVV";
37.
38.     promise<double> pp;
39.     future<double> ff = pp.get_future();
40.
41.     strv = stra;
42.
43.     thread t1(task, std::ref(pp));
44.     cout << "Value = " << pp.get() << endl;
45.

```

```
46.     t1.join();
47. }
```

*Use the editor to format your answer*

### Question 3

1 Point

The code below contains **three** (3) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. // assign.h
2. #ifndef SDDS_ASSIGN_H
3. #define SDDS_ASSIGN_H
4. #include <iostream>
5. #include <string>
6. #include <vector>
7.
8. class Assign
9. {
10.     std::vector<long long> m_data;
11.     std::string m_title{ "NoName" };
12.     double m_value{ -1 };
13. public:
14.     Assign(std::string str, double field2);
15.
16.     std::ostream& log() const;
17.
18.     Assign& update();
19.
20.     double getData(size_t step) const;
21. };
22. #endif
```



```
1. // assign.cpp
2. #include <iostream>
3. #include <string>
4. #include <utility>
5. #include "assign.h"
6.
7. using namespace std;
8.
9. Assign::Assign(string str, double value)
10. {
11.     m_title = str;
12.     m_value = value;
13.     for (auto i = 0; i < 123; ++i)
14.         m_data[i] = static_cast<long long>(i * value);
15. }
16.
17. Assign& Assign::update()
18. {
19.     for (auto it = m_data.begin(); it != m_data.end(); ++it)
20.         *it += 5;
21.     return *this;
22. }
23.
24. double Assign::getData(size_t step) const
25. {
26.     double sum = 0;
27.     for (auto i = step; i < m_data.size(); i += step)
28.         sum += m_data[i];
29.     return sum;
30. }
31.
32. ostream& Assign::log() const
33. {
34.     clog << m_title << " : " << m_value << "\n\t";
35.     for (auto& elem : m_data)
36.         clog << elem << ", ";
37.
38.     return clog << '\n';
39. }
```

```
1. // main.cpp
2. #include <iostream>
3. #include <string>
4. #include <string_view>
5. #include <thread>
6. #include <future>
7. #include <numeric>
8. #include "Assign.h"
9. using namespace std;
10.
11. thread_local int step = 0;
12.
13. void task(promise<double>& p)
14. {
15.     vector VE;
16.     VE.push_back({ "AAAAAAA", 1.2 });
17.     VE.push_back({ "BBBBBBBB", 2.3 });
18.     VE.push_back({ "CCCCCCCC", 3.4 });
19.     VE.push_back({ "DDDDDDDD", 4.5 });
20.     double s = accumulate(VE.begin(), VE.end(), 0.0,
21.         [](const double& x, const Assign& e)
22.         {
23.             step = (step + 1) % 5;
24.             return x + e.getData(step);
25.         });
26.     p.set_value(s);
27. }
28.
29. int main()
30. {
31.     Assign a("Hello", 2.3);
32.     a.update().log();
33.
34.     const char* strc = "CCCCCCCC";
35.     string strb, stra = "AAAAAAA";
36.     string_view strv = "VVVVVVVV";
37.
38.     promise<double> p;
39.     future<double> f = p.get_future();
40.
41.     strv = stra;
42.
43.     thread t1(task, std::ref(p));
```

```
44.     cout << "Value = " << f.get() << endl;
45. }
```

*Use the editor to format your answer*

## Question 4

1 Point

The code below contains **three** (3) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. // assign.h
2. #ifndef SDDS_ASSIGN_H
3. #define SDDS_ASSIGN_H
4. #include <iostream>
5. #include <string>
6. #include <vector>
7.
8. class Assign
9. {
10.     std::vector<long long> m_data;
11.     std::string m_title{ "NoName" };
12.     double m_value{ -1 };
13. public:
14.     Assign(std::string str, double field2);
15.
16.     std::ostream& log() const;
17.
18.     Assign& update();
19.
20.     double getData(size_t step) const;
21. };
22. #endif
```

```
1. // assign.cpp
2. #include <iostream>
3. #include <string>
4. #include <utility>
5. #include "assign.h"
6.
7. using namespace std;
8.
9. Assign::Assign(string str, double value)
10. {
11.     m_title = str;
12.     m_value = value;
13.     for (auto i = 0; i < 123; ++i)
14.         m_data.push_back(dynamic_cast<long long>(i * value));
15. }
16.
17. Assign& Assign::update()
18. {
19.     for (auto it = m_data.begin(); it != m_data.end(); ++it)
20.         *it += 5;
21.     return *this;
22. }
23.
24. double Assign::getData(size_t step) const
25. {
26.     double sum = 0;
27.     for (auto i = step; i < m_data.size(); i += step)
28.         sum += m_data[i];
29.     return sum;
30. }
31.
32. ostream& Assign::log() const
33. {
34.     clog << m_title << " : " << m_value << "\n\t";
35.     for (auto& elem : m_data)
36.         clog << elem << ", ";
37.
38.     return clog << '\n';
39. }
```

```
1. // main.cpp
2. #include <iostream>
3. #include <string>
4. #include <string_view>
5. #include <thread>
6. #include <future>
7. #include <numeric>
8. #include "Assign.h"
9. using namespace std;
10.
11. thread_local step = 0;
12.
13. void task(promise<double>& p)
14. {
15.     vector<Assign> VE;
16.     VE.push_back({ "AAAAAAA", 1.2 });
17.     VE.push_back({ "BBBBBBBB", 2.3 });
18.     VE.push_back({ "CCCCCCCC", 3.4 });
19.     VE.push_back({ "DDDDDDDD", 4.5 });
20.     double s = accumulate(VE.begin(), VE.end(), 0.0,
21.         [](const double& x, const Assign& e)
22.         {
23.             step = (step + 1) % 5;
24.             return x + e.getData(step);
25.         });
26.     p.set_value(s);
27. }
28.
29. int main()
30. {
31.     Assign a("Hello", 2.3);
32.     a.update().log();
33.
34.     const char* strc = "CCCCCCCC";
35.     string strb, stra = "AAAAAAA";
36.     string_view strv = "VVVVVVVV";
37.
38.     promise<double> p;
39.     future<double> f = p.get_future();
40.
41.     strv = stra;
42.
43.     thread t1(task, std::ref(p));
44.     cout << "Value = " << f.get() << endl;
45.
```

```
46.     t1.join();
47. }
```

*Use the editor to format your answer*

## Question 5

1 Point

The code below contains **three** (3) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. // assign.h
2. #ifndef SDDS_ASSIGN_H
3. #define SDDS_ASSIGN_H
4. #include <iostream>
5. #include <string>
6. #include <vector>
7.
8. class Assign
9. {
10.     std::vector<long long> m_data;
11.     std::string m_title{ "NoName" };
12.     double m_value{ -1 };
13. public:
14.     Assign(std::string str, double field2);
15.
16.     std::ostream& log() const;
17.
18.     Assign& update();
19.
20.     double getData(size_t step) const;
21. };
22. #endif
```

```
1. // assign.cpp
2. #include <iostream>
3. #include <string>
4. #include <utility>
5. #include "assign.h"
6.
7. using namespace std;
8.
9. Assign::Assign(string str, double value)
10. {
11.     m_title = str;
12.     m_value = value;
13.     for (auto i = 0; i < 123; ++i)
14.         m_data.push_back(static_cast<long long>(i * value));
15. }
16.
17. Assign& Assign::update()
18. {
19.     for (auto it = m_data.cbegin(); it != m_data.cend(); ++it)
20.         *it += 5;
21.     return *this;
22. }
23.
24. double Assign::getData(size_t step) const
25. {
26.     double sum = 0;
27.     for (auto i = step; i < m_data.size(); i += step)
28.         sum += m_data[i];
29.     return sum;
30. }
31.
32. ostream& Assign::log() const
33. {
34.     clog << m_title << " : " << m_value << "\n\t";
35.     for (auto& elem : m_data)
36.         clog << elem << ", ";
37.
38.     return clog << '\n';
39. }
```

```
1. // main.cpp
2. #include <iostream>
3. #include <string>
4. #include <string_view>
5. #include <thread>
6. #include <future>
7. #include <numeric>
8. #include "Assign.h"
9. using namespace std;
10.
11. thread_local size_t step = 0;
12.
13. void task(promise<double>& p)
14. {
15.     vector<Assign> VE;
16.     VE.push_back({ "AAAAAAA", 1.2 });
17.     VE.push_back({ "BBBBBBBB", 2.3 });
18.     VE.push_back({ "CCCCCCCC", 3.4 });
19.     VE.push_back({ "DDDDDDDD", 4.5 });
20.     double s = accumulate(VE.begin(), VE.end(), 0.0,
21.         [](const double& x, const Assign& e)
22.         {
23.             step = (step + 1) % 5;
24.             return x + e.getData(step);
25.         });
26.     p.set_value(s);
27. }
28.
29. int main()
30. {
31.     Assign a("Hello", 2.3);
32.     a.update().log();
33.
34.     const char* strc = "CCCCCCCC";
35.     string strb, stra = "AAAAAAA";
36.     string_view strv = "VVVVVVVV";
37.
38.     promise<double> p;
39.     future<double> f = p.get_future();
40.
41.     strv += stra;
42.
43.     thread t1(task, p);
44.     cout << "Value = " << f.get() << endl;
45.
```



```
46.      t1.join();  
47. }
```

*Use the editor to format your answer*

## Question 6

1 Point

The code below contains **two** (2) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. #include <iostream>
2. #include <array>
3. using namespace std;
4.
5. #define PRINT_HEADER(msg) cout << "**** -> " << msg << " <- ****\n"
6.
7. bool divBy3(const int& val)
8. {
9.     return val % 3 == 0;
10. }
11.
12. bool divBy2(const int& val)
13. {
14.     return val % 2 == 0;
15. }
16.
17. int main()
18. {
19.     PRINT_HEADER("Start Program");
20.
21.     bool (*select)(const int&) = nullptr;
22.
23.     PRINT_HEADER("Create multidimensional array");
24.
25.     int** pRagged = new int*[3];
26.
27.     for (auto row = 0; row < 3; ++row)
28.     {
29.         pRagged[row] = new int[row + 10];
30.         for (auto col = 0; col < row + 10; ++col)
31.             pRagged[row][col] = row + col;
32.     }
33.
34.     std::array<double> arr{};
35.
36.     select = divBy2;
37.     copy_if(pRagged[2], pRagged[2] + 10, arr.begin(), select);
38.
39.     PRINT_HEADER("Cleanup");
40.
41.     delete[] pRagged;
42.     for (auto i = 2; i >= 0; --i)
43.         delete[] pRagged[i];
44. }
```

*Use the editor to format your answer*

## Question 7

1 Point

The code below contains **two** (2) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. #include <iostream>
2. #include <array>
3. using namespace std;
4.
5. #define PRINT_HEADER(msg) cout << "**** -> " << msg << " <- ****\n"
6.
7. bool divBy3(const int& val)
8. {
9.     return val % 3 == 0;
10. }
11.
12. bool divBy2(const int& val)
13. {
14.     return val % 2 == 0;
15. }
16.
17. int main()
18. {
19.     PRINT_HEADER("Start Program");
20.
21.     bool (*select)(const double&) = divBy3;
22.
23.     PRINT_HEADER("Create multidimensional array");
24.
25.     int** pRagged = new int*[3];
26.
27.     for (auto row = 0; row < 3; ++row)
28.     {
29.         pRagged[row] = new int[row + 10];
30.         for (auto col = 0; col < row + 10; ++col)
31.             pRagged[col][row] = row + col;
32.     }
33.
34.     std::array<double, 10> arr{};
35.
36.     select = divBy2;
37.     copy_if(pRagged[2], pRagged[2] + 10, arr.begin(), select);
38.
39.     PRINT_HEADER("Cleanup");
40.
41.     for (auto i = 2; i >= 0; --i)
42.         delete[] pRagged[i];
43.     delete[] pRagged;
44. }
```

*Use the editor to format your answer*

## Question 8

1 Point

The code below contains **two** (2) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. #include <iostream>
2. #include <array>
3. using namespace std;
4.
5. #define PRINT_HEADER(msg) cout << "**** -> " << msg << " <- ****\n"
6.
7. bool divBy3(const int& val)
8. {
9.     return val % 3 == 0;
10. }
11.
12. bool divBy2(const int& val)
13. {
14.     return val % 2 == 0;
15. }
16.
17. int main()
18. {
19.     PRINT_HEADER("Start Program");
20.
21.     bool (*select)(const int&) = nullptr;
22.
23.     PRINT_HEADER("Create multidimensional array");
24.
25.     int* pRagged[3];
26.
27.     for (auto row = 0; row < 3; ++row)
28.     {
29.         pRagged[row] = new int[row + 10];
30.         for (auto col = 0; col < row + 10; ++col)
31.             pRagged[row][col] = row + col;
32.     }
33.
34.     std::array<double, 10> arr{};
35.
36.     select = divBy2;
37.     copy_if(pRagged[2], pRagged[2] + 10, arr, select);
38.
39.     PRINT_HEADER("Cleanup");
40.
41.     for (auto i = 2; i >= 0; --i)
42.         delete[] pRagged[i];
43.     delete[] pRagged;
44. }
```

*Use the editor to format your answer*

## Question 9

1 Point

The code below contains **two** (2) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. #include <iostream>
2. #include <array>
3. using namespace std;
4.
5. #define PRINT_HEADER(msg) cout << "**** -> "
6.                               << msg << " <-  ****\n"
7.
8. bool divBy3(const int& val)
9. {
10.     return val % 3 == 0;
11. }
12.
13. bool divBy2(const int& val)
14. {
15.     return val % 2 == 0;
16. }
17.
18. int main()
19. {
20.     PRINT_HEADER("Start Program");
21.
22.     bool (*select)(const int&) = nullptr;
23.
24.     PRINT_HEADER("Create multidimensional array");
25.
26.     int** pRagged = new int*[3];
27.
28.     for (auto row = 0; row < 3; ++row)
29.     {
30.         for (auto col = 0; col < row + 10; ++col)
31.             pRagged[row][col] = row + col;
32.     }
33.
34.     std::array<double, 10> arr{};
35.
36.     select = divBy2;
37.     copy_if(pRagged[2], pRagged[2] + 10, arr.begin(), select);
38.
39.     PRINT_HEADER("Cleanup");
40.
41.     for (auto i = 2; i >= 0; --i)
42.         delete[] pRagged[i];
43.     delete[] pRagged;
44. }
```



*Use the editor to format your answer*

## Question 10

1 Point

The code below contains **two** (2) syntactic errors under C++17 standard (errors that are caught by a compiler or generate crashes/undefined behaviour at runtime). Your task is to identify each one by the file name and line number and **explain why the error appears, what C++ standard rule is broken, what C++ feature is misused and how the error should be fixed**. Your answer will be evaluated based on **clarity of the text** and the show of **understanding of the concepts** that are involved in the error.

```
1. #include <iostream>
2. #include <array>
3. using namespace std;
4.
5. #define PRINT_HEADER(msg) cout << "**** -> " << msg << " <- ****\n"
6.
7. bool divBy3(const int& val)
8. {
9.     return val % 3 == 0;
10. }
11.
12. bool divBy2(const int& val)
13. {
14.     return val % 2 == 0;
15. }
16.
17. int main()
18. {
19.     PRINT_HEADER("Start Program");
20.
21.     bool (*select)(const int&) = nullptr;
22.
23.     PRINT_HEADER("Create multidimensional array");
24.
25.     int** pRagged = new int[3];
26.
27.     for (auto row = 0; row < 3; ++row)
28.     {
29.         pRagged[row] = new int[row + 10];
30.         for (auto col = 0; col < row + 10; ++col)
31.             pRagged[row][col] = row + col;
32.     }
33.
34.     std::array<double, 10> arr{};
35.
36.     select = divBy2;
37.     copy_if(pRagged[0].begin(), pRagged[0].end(), arr.begin(), divBy3);
38.
39.     PRINT_HEADER("Cleanup");
40.
41.     for (auto i = 2; i >= 0; --i)
42.         delete[] pRagged[i];
43.     delete[] pRagged;
44. }
```

Use the editor to format your answer

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