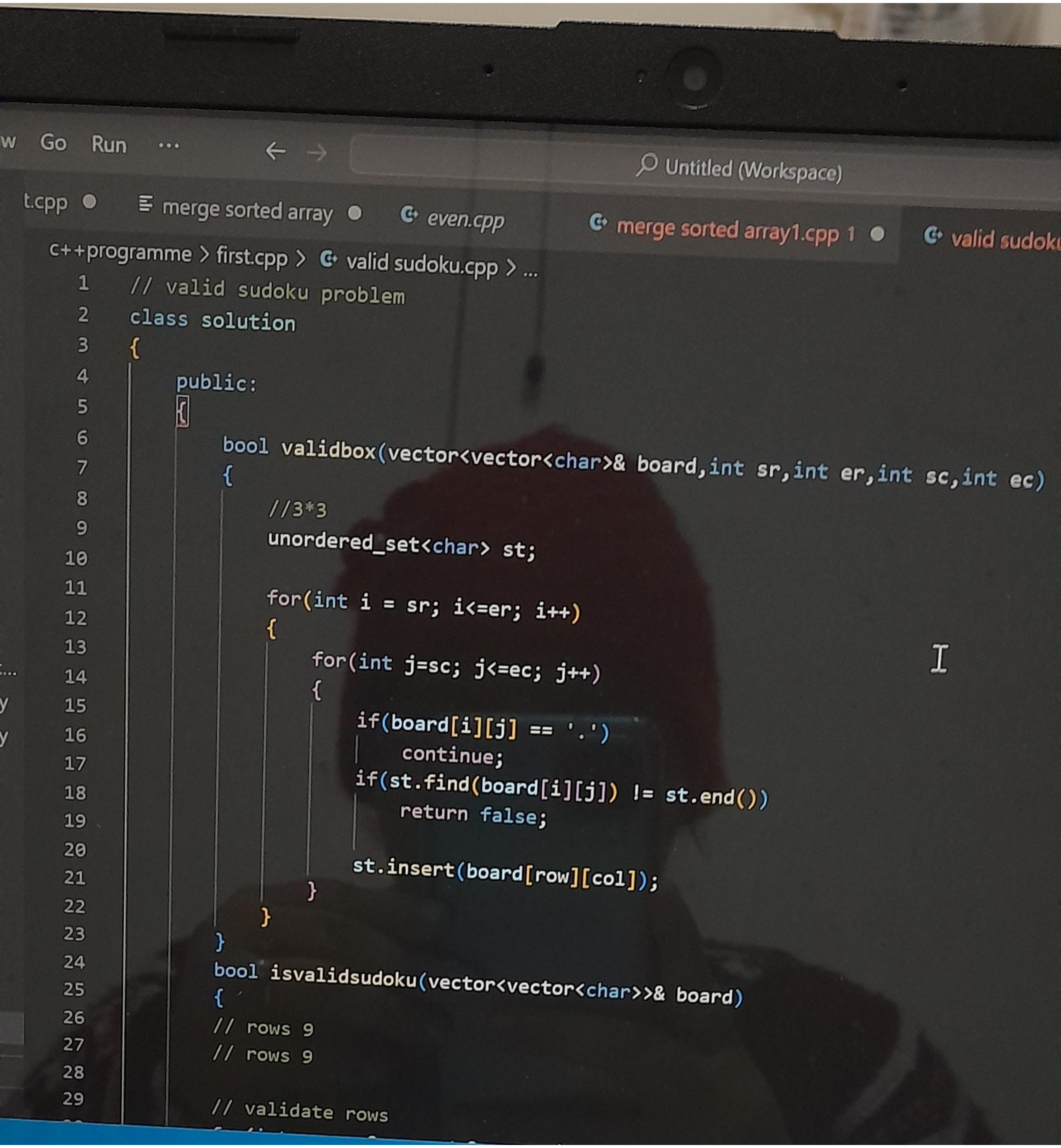

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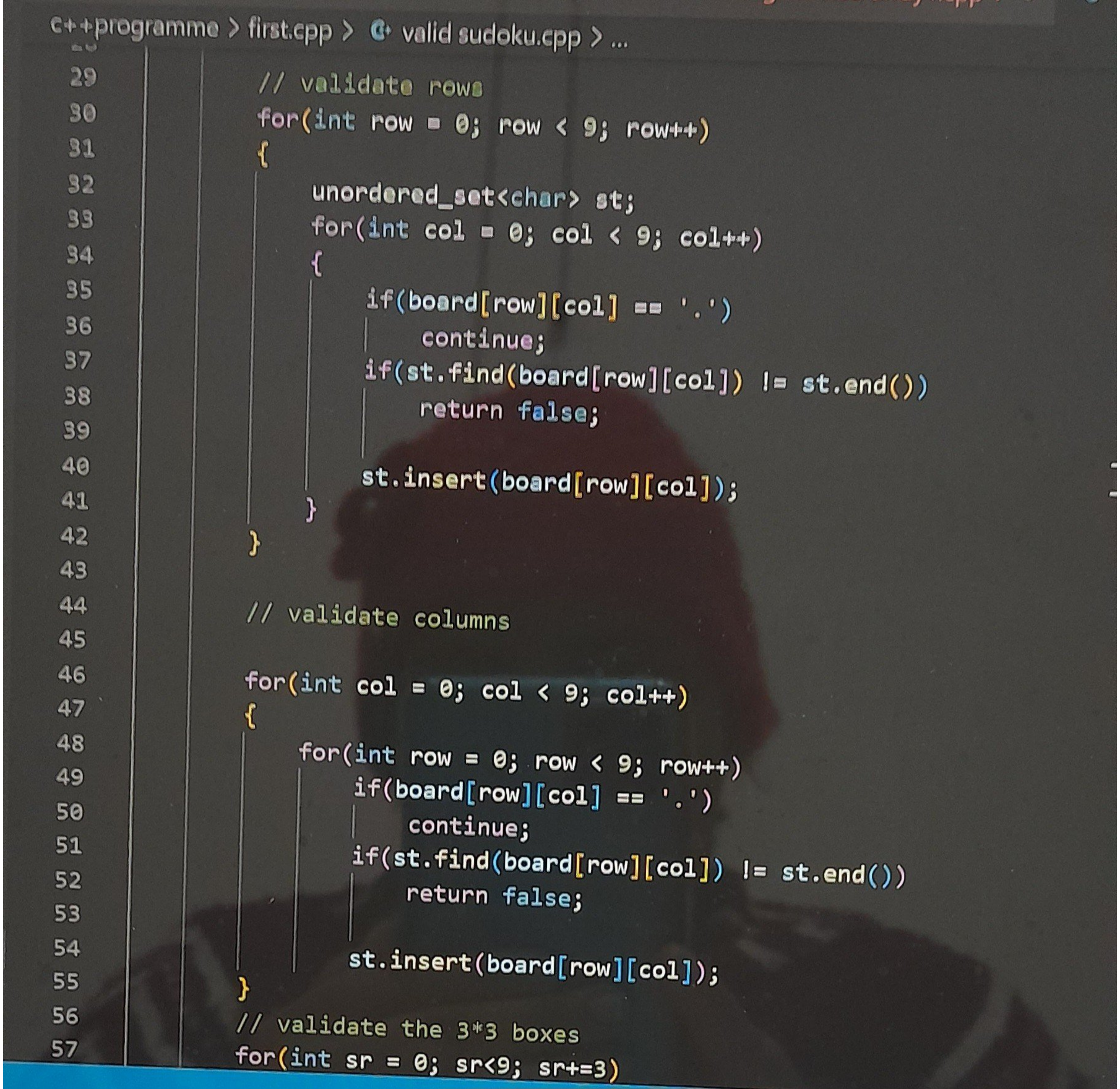
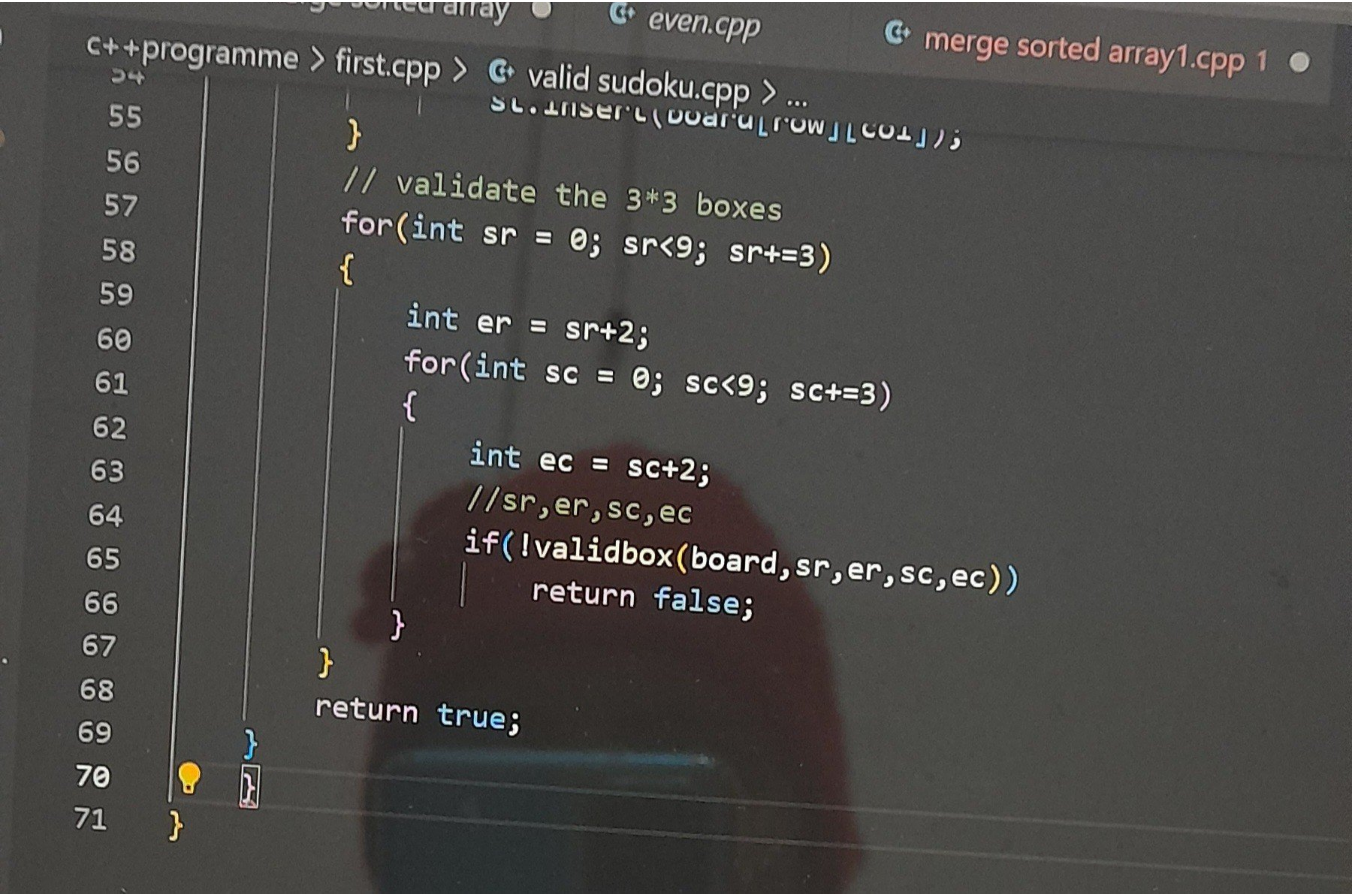
Go
Run
···
Untitled (Workspace)
t.cpp
merge sorted array
even.cpp
merge sorted array1.cpp 1
valid sudoku
c++programme > first.cpp > valid sudoku.cpp > ...

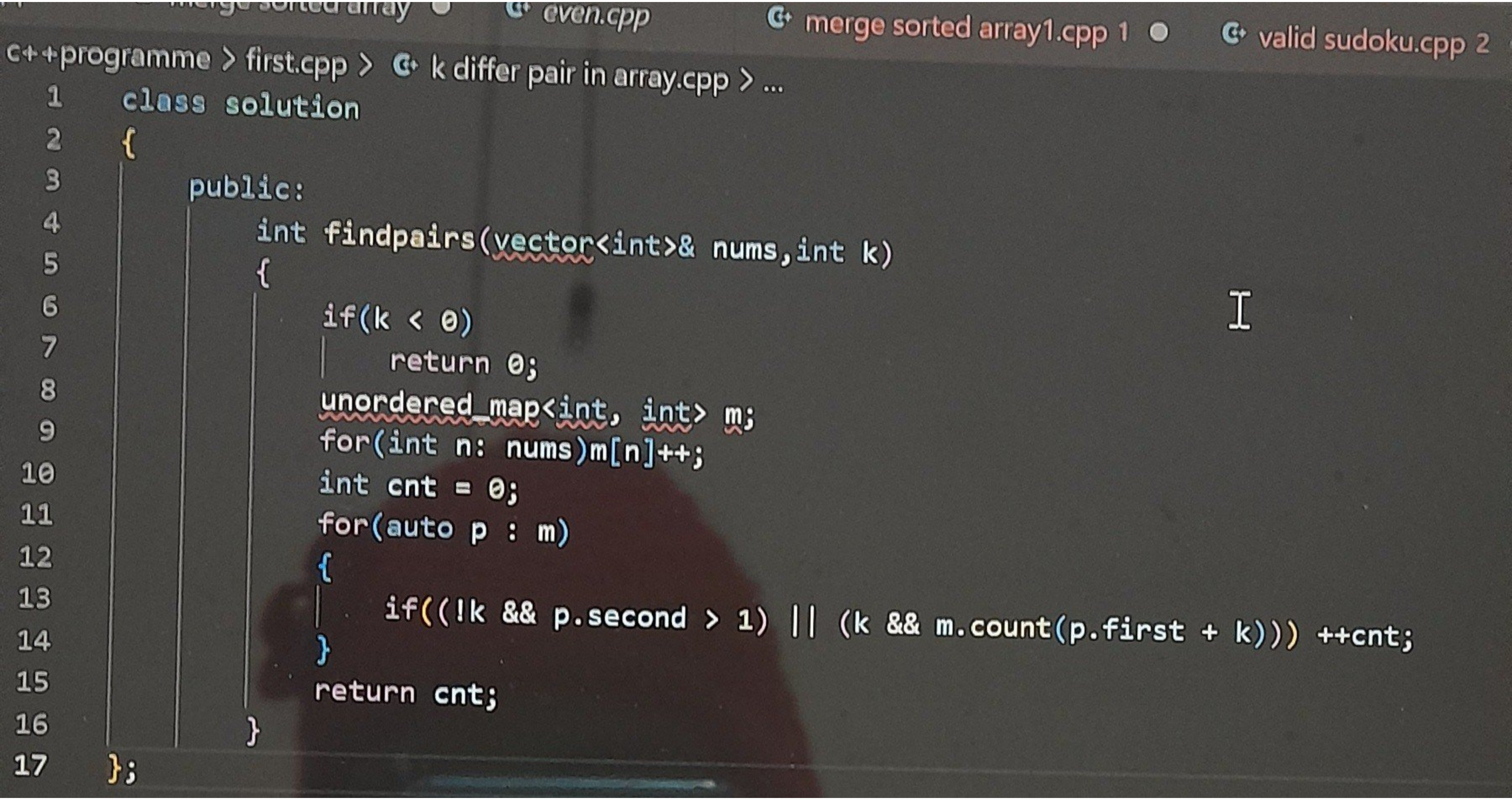
```
// valid sudoku problem
class solution
{
    public:
    {
        bool validbox(vector<vector<char>& board,int sr,int er,int sc,int ec)
        {
            //3*3
            unordered_set<char> st;

            for(int i = sr; i<=er; i++)
            {
                for(int j=sc; j<=ec; j++)
                {
                    if(board[i][j] == '.')
                        continue;
                    if(st.find(board[i][j]) != st.end())
                        return false;

                    st.insert(board[row][col]);
                }
            }
        }
        bool isvalidsudoku(vector<vector<char>>& board)
        {
        // rows 9
        // rows 9

        // validate rows
```



```
        // validate rows
        for(int row = 0; row < 9; row++)
        {
            unordered_set<char> st;
            for(int col = 0; col < 9; col++)
            {
                if(board[row][col] == '.')
                    continue;
                if(st.find(board[row][col]) != st.end())
                    return false;

                st.insert(board[row][col]);
            }
        }

        // validate columns

        for(int col = 0; col < 9; col++)
        {
            for(int row = 0; row < 9; row++)
                if(board[row][col] == '.')
                    continue;
                if(st.find(board[row][col]) != st.end())
                    return false;

                st.insert(board[row][col]);
        }
        // validate the 3*3 boxes
        for(int sr = 0; sr<9; sr+=3)
```


ge sorted array ●
even.cpp
merge sorted array1.cpp 1 ●
c++programme > first.cpp > valid sudoku.cpp > ...

```
                st.insert(board[row][col]);
            }
            // validate the 3*3 boxes
            for(int sr = 0; sr<9; sr+=3)
            {
                int er = sr+2;
                for(int sc = 0; sc<9; sc+=3)
                {
                    int ec = sc+2;
                    //sr,er,sc,ec
                    if(!validbox(board,sr,er,sc,ec))
                        return false;
                }
            }
            return true;
        }
        }
}
```


merge sorted array ●
even.cpp
merge sorted array1.cpp 1 ●
valid sudoku.cpp 2
c++programme > first.cpp > k differ pair in array.cpp > ...

```cpp
class solution
{
    public:
        int findpairs(vector<int>& nums,int k)
        {
            if(k < 0)
                return 0;
            unordered_map<int, int> m;
            for(int n: nums)m[n]++;
            int cnt = 0;
            for(auto p : m)
            {
                if((!k && p.second > 1) || (k && m.count(p.first + k))) ++cnt;
            }
            return cnt;
        }
};
```