```
#include <iostream>
#include <string>
using namespace std;
void sort(int arr[][3], int n) {
    int temp[3];
    for (int i = 0; i < n; i++) {
        for (int j = i; j < n; j++) {
            if (arr[i][0] > arr[j][0]) {
                temp[0] = arr[i][0];
                temp[1] = arr[i][1];
                temp[2] = arr[i][2];
                arr[i][0] = arr[i][0];
                arr[i][1] = arr[j][1];
                arr[i][2] = arr[j][2];
                arr[j][0] = temp[0];
                arr[j][1] = temp[1];
                arr[j][2] = temp[2];
            }
            else if (arr[i][0] == arr[j][0]) {
                if (arr[i][1] > arr[j][1]) {
                    temp[0] = arr[i][0];
                    temp[1] = arr[i][1];
                    temp[2] = arr[i][2];
                    arr[i][0] = arr[j][0];
                    arr[i][1] = arr[j][1];
                    arr[i][2] = arr[j][2];
                    arr[j][0] = temp[0];
                    arr[j][1] = temp[1];
                    arr[j][2] = temp[2];
                }
                else if (arr[i][1] == arr[j][1]) {
                    if (arr[i][2] > arr[j][2]) {
                        temp[0] = arr[i][0];
                        temp[1] = arr[i][1];
                        temp[2] = arr[i][2];
                         arr[i][0] = arr[j][0];
                         arr[i][1] = arr[j][1];
                         arr[i][2] = arr[j][2];
                         arr[j][0] = temp[0];
                         arr[j][1] = temp[1];
                         arr[i][2] = temp[2];
                    }
                }
```

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}
                                             }
                       }
}
int main() {
                        int arr[9][3] =
\{\{1,2,3\},\{1,2,2\},\{1,1,1\},\{2,2,2\},\{2,1,1\},\{2,1,2\},\{3,3,3\},\{3,2,2\},\{3,1,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,2,2\},\{3,
1}};
                        cout << "Before sorting" << endl;</pre>
                        for (int i = 0; i < 9; i++) {
                                                 for (int j = 0; j < 3; j++) {
                                                                         cout << arr[i][j] << " ";</pre>
                                                 }
                                                 cout << endl;</pre>
                        }
                        cout << "After sorting" << endl;</pre>
                        sort(arr, 9);
                        for (int i = 0; i < 9; i++) {
                                                 for (int j = 0; j < 3; j++) {
                                                                         cout << arr[i][j] << " ";</pre>
                                                 }
                                                 cout << endl;</pre>
                        }
}
Output:
Before sorting
1 2 3
1 2 2
1 1 1
2 2 2
2 1 1
2 1 2
3 3 3
3 2 2
3 1 1
After sorting
1 1 1
1 2 2
1 2 3
2 1 1
```